		Atom Type	Res.			X	Y	Z		
ATOM	1	N	GLY	A	58	31.563	49.775	16.324	1.00	59.33
ATOM	2	CA	GLY	A	58	32.861	50.358	16.764	1.00	58.44
ATOM	3	C	GLY	A	58	33.594	49.446	17.727	1.00	57.81
ATOM	4	O	GLY	A	58	34.067	48.331	17.333	1.00	56.66
ATOM	5	N	SER	A	59	33.712	49.888	18.975	1.00	56.66
ATOM	6	CA	SER	A	59	34.391	49.094	20.015	1.00	55.45
ATOM	7	C	SER	A	59	33.560	49.088	21.293	1.00	53.77
ATOM	8	O	SER	A	59	32.978	50.147	21.704	1.00	54.40
ATOM	9	CB	SER	A	59	35.781	49.668	20.309	1.00	55.79
ATOM	10	OG	SER	A	59	35.690	50.952	20.899	1.00	57.07
ATOM	11	N	PHE	A	60	33.480	47.924	21.927	1.00	49.96
ATOM	12	CA	PHE	A	60	32.719	47.772	23.181	1.00	45.72
ATOM	13	C	PHE	A	60	33.681	47.269	24.247	1.00	44.79
ATOM	14	O	PHE	A	60	33.495	46.160	24.831	1.00	45.45
ATOM	15	CB	PHE	A	60	31.564	46.790	22.976	1.00	43.28
ATOM	16	CG	PHE	A	60	30.557	47.249	21.957	1.00	41.00
ATOM	17	CD1	PHE	A	60	30.875	47.267	20.602	1.00	40.54
ATOM	18	CD2	PHE	A	60	29.301	47.701	22.355	1.00	40.58
ATOM	19	CE1	PHE	A	60	29.954	47.731	19.658	1.00	39.88
ATOM	20	CE2	PHE	A	60	28.375	48.166	21.419	1.00	39.50
ATOM	21	CZ	PHE	A	60	28.704	48.182	20.070	1.00	39.23
ATOM	22	N	VAL	A	61	34.709	48.073	24.500	1.00	43.29
ATOM	23	CA	VAL	A	61	35.763	47.756	25.483	1.00	43.19
ATOM	24	C	VAL	A	61	35.243	47.069	26.738	1.00	41.81
ATOM	25	O	VAL	A	61	35.876	46.099	27.247	1.00	42.54
ATOM	26	CB	VAL	A	61	36.532	49.035	25.895	1.00	43.62
ATOM	27	CG1	VAL	A	61	37.069	49.730	24.655	1.00	44.38
ATOM	28	CG2	VAL	A	61	35.621	49.975	26.676	1.00	44.28
ATOM	29	N	GLU	A	62	34.114	47.542	27.252	1.00	40.86
ATOM	30	CA	GLU	A	62	33.517	46.959	28.470	1.00	40.02
ATOM	31	C	GLU	A	62	33.208	45.473	28.320	1.00	36.45
ATOM	32	O	GLU	A	62	33.366	44.685	29.301	1.00	36.49
ATOM	33	CB	GLU	A	62	32.226	47.700	28.832	1.00	43.76
ATOM	34	CG	GLU	A	62	32.399	48.895	29.764	1.00	48.74
ATOM	35	CD	GLU	A	62	32.743	48.486	31.188	1.00	51.91
ATOM	36	OE1	GLU	A	62	32.317	47.387	31.612	1.00	53.41
ATOM	37	OE2	GLU	A	62	33.423	49.271	31.890	1.00	53.64
ATOM	38	N	MET	A	63	32.780	45.062	27.129	1.00	30.86
ATOM	39	CA	MET	A	63	32.421	43.643	26.896	1.00	27.79
ATOM	40	C	MET	A	63	33.491	42.741	26.279	1.00	26.02
ATOM	41	O	MET	A	63	33.354	41.476	26.310	1.00	25.25
ATOM	42	CB	MET	A	63	31.130	43.578	26.078	1.00	25.63
ATOM	43	CG	MET	A	63	29.942	44.133	26.858	1.00	24.89
ATOM	44	SD	MET	A	63	28.392	44.180	25.960	1.00	23.85
ATOM	45	CE	MET	A	63	28.431	45.848	25.316	1.00	24.18
ATOM	46	N	VAL	A	64	34.551	43.330	25.736	1.00	23.39
ATOM	47	CA	VAL	A	64	35.639	42.516	25.143	1.00	20.76
ATOM	48	C	VAL	A	64	36.263	41.634	26.216	1.00	20.06
ATOM	49	O	VAL	A	64	36.531	42.095	27.370	1.00	18.87
ATOM	50	CB	VAL	A	64	36.740	43.407	24.517	1.00	21.16
ATOM	51	CG1	VAL	A	64	37.958	42.567	24.151	1.00	18.99
ATOM	52	CG2	VAL	A	64	36.193	44.092	23.266	1.00	21.01
ATOM	53	N	ASP	A	65	36.487	40.373	25.869	1.00	18.21
ATOM	54	CA	ASP	A	65	37.091	39.397	26.800	1.00	18.56
ATOM	55	C	ASP	A	65	36.280	39.174	28.071	1.00	17.80
ATOM	56	O	ASP	A	65	36.869	38.964	29.165	1.00	16.29
ATOM	57	CB	ASP	A	65	38.508	39.829	27.194	1.00	21.53
ATOM	58	CG	ASP	A	65	39.409	40.055	25.993	1.00	22.65

FIG. 1A

ATOM	59	OD1	ASP	A	65	39.162	39.451	24.930	1.00	23.75
ATOM	60	OD2	ASP	A	65	40.375	40.831	26.117	1.00	24.72
ATOM	61	N	ASN	A	66	34.955	39.209	27.969	1.00	16.59
ATOM	62	CA	ASN	A	66	34.090	38.987	29.156	1.00	16.58
ATOM	63	C	ASN	A	66	33.719	37.508	29.274	1.00	17.20
ATOM	64	O	ASN	A	66	32.815	37.125	30.070	1.00	19.23
ATOM	65	CB	ASN	A	66	32.817	39.845	29.059	1.00	14.62
ATOM	66	CG	ASN	A	66	31.967	39.516	27.835	1.00	15.57
ATOM	67	OD1	ASN	A	66	32.381	38.714	26.937	1.00	16.31
ATOM	68	ND2	ASN	A	66	30.788	40.120	27.760	1.00	14.85
ATOM	69	N	LEU	A	67	34.409	36.664	28.515	1.00	17.73
ATOM	70	CA	LEU	A	67	34.134	35.206	28.529	1.00	17.36
ATOM	71	C	LEU	A	67	35.295	34.328	28.985	1.00	16.04
ATOM	72	O	LEU	A	67	36.499	34.701	28.842	1.00	16.38
ATOM	73	CB	LEU	A	67	33.707	34.757	27.128	1.00	17.19
ATOM	74	CG	LEU	A	67	32.226	34.504	26.839	1.00	18.63
ATOM	75	CD1	LEU	A	67	31.349	35.604	27.407	1.00	16.94
ATOM	76	CD2	LEU	A	67	32.049	34.375	25.330	1.00	18.67
ATOM	77	N	ARG	A	68	34.956	33.166	29.531	1.00	14.58
ATOM	78	CA	ARG	A	68	35.961	32.173	29.973	1.00	16.73
ATOM	79	C	ARG	A	68	35.394	30.775	29.717	1.00	15.78
ATOM	80	O	ARG	A	68	34.154	30.610	29.500	1.00	13.85
ATOM	81	CB	ARG	A	68	36.299	32.349	31.459	1.00	18.19
ATOM	82	CG	ARG	A	68	37.086	33.623	31.766	1.00	21.67
ATOM	83	CD	ARG	A	68	37.571	33.646	33.213	1.00	23.25
ATOM	84	NE	ARG	A	68	36.462	33.653	34.165	1.00	26.34
ATOM	85	CZ	ARG	A	68	36.598	33.500	35.482	1.00	27.29
ATOM	86	NH1	ARG	A	68	37.802	33.324	36.015	1.00	25.91
ATOM	87	NH2	ARG	A	68	35.530	33.527	36.271	1.00	26.77
ATOM	88	N	GLY	A	69	36.262	29.769	29.726	1.00	14.89
ATOM	89	CA	GLY	A	69	35.816	28.409	29.486	1.00	15.62
ATOM	90	C	GLY	A	69	36.505	27.806	28.277	1.00	16.66
ATOM	91	O	GLY	A	69	37.526	28.367	27.771	1.00	15.60
ATOM	92	N	LYS	A	70	35.989	26.676	27.804	1.00	17.25
ATOM	93	CA	LYS	A	70	36.556	25.973	26.629	1.00	16.95
ATOM	94	C	LYS	A	70	35.472	25.138	25.949	1.00	16.87
ATOM	95	O	LYS	A	70	34.394	24.864	26.562	1.00	17.19
ATOM	96	CB	LYS	A	70	37.737	25.092	27.058	1.00	18.62
ATOM	97	CG	LYS	A	70	37.518	24.303	28.348	1.00	19.97
ATOM	98	CD	LYS	A	70	38.737	23.446	28.667	1.00	22.43
ATOM	99	CE	LYS	A	70	38.538	22.611	29.926	1.00	23.77
ATOM	100	NZ	LYS	A	70	39.660	21.638	30.129	1.00	22.43
ATOM	101	N	SER	A	71	35.714	24.729	24.706	1.00	15.11
ATOM	102	CA	SER	A	71	34.706	23.950	23.940	1.00	14.34
ATOM	103	C	SER	A	71	34.155	22.730	24.667	1.00	14.36
ATOM	104	O	SER	A	71	32.918	22.446	24.600	1.00	13.81
ATOM	105	CB	SER	A	71	35.281	23.523	22.581	1.00	14.97
ATOM	106	OG	SER	A	71	36.456	22.743	22.732	1.00	15.41
ATOM	107	N	GLY	A	72	35.024	22.005	25.362	1.00	14.38
ATOM	108	CA	GLY	A	72	34.588	20.815	26.072	1.00	14.63
ATOM	109	C	GLY	A	72	33.661	21.022	27.262	1.00	16.49
ATOM	110	O	GLY	A	72	32.772	20.159	27.537	1.00	16.20
ATOM	111	N	GLN	A	73	33.814	22.129	27.979	1.00	16.78
ATOM	112	CA	GLN	A	73	32.965	22.369	29.167	1.00	18.67
ATOM	113	C	GLN	A	73	32.040	23.570	29.038	1.00	18.70
ATOM	114	O	GLN	A	73	31.223	23.858	29.967	1.00	19.81
ATOM	115	CB	GLN	A	73	33.852	22.522	30.401	1.00	20.09
ATOM	116	CG	GLN	A	73	34.924	21.433	30.493	1.00	24.21
ATOM	117	CD	GLN	A	73	35.624	21.400	31.837	1.00	24.83
ATOM	118	OE1	GLN	A	73	36.048	22.467	32.380	1.00	26.53
ATOM	119	NE2	GLN	A	73	35.769	20.206	32.395	1.00	25.73
ATOM	120	N	GLY	A	74	32.138	24.274	27.914	1.00	17.65

FIG. 1B

ATOM	121	CA	GLY	A	74	31.292	25.429	27.688	1.00	15.83
ATOM	122	C	GLY	A	74	31.939	26.746	28.068	1.00	15.56
ATOM	123	O	GLY	A	74	32.837	26.799	28.962	1.00	17.53
ATOM	124	N	TYR	A	75	31.517	27.814	27.403	1.00	13.96
ATOM	125	CA	TYR	A	75	32.041	29.164	27.686	1.00	16.12
ATOM	126	C	TYR	A	75	30.991	29.903	28.502	1.00	14.92
ATOM	127	O	TYR	A	75	29.758	29.793	28.217	1.00	14.71
ATOM	128	CB	TYR	A	75	32.324	29.918	26.385	1.00	17.79
ATOM	129	CG	TYR	A	75	33.490	29.354	25.605	1.00	18.92
ATOM	130	CD1	TYR	A	75	33.326	28.271	24.742	1.00	19.83
ATOM	131	CD2	TYR	A	75	34.763	29.909	25.735	1.00	20.43
ATOM	132	CE1	TYR	A	75	34.409	27.757	24.020	1.00	21.98
ATOM	133	CE2	TYR	A	75	35.847	29.407	25.025	1.00	21.04
ATOM	134	CZ	TYR	A	75	35.666	28.339	24.170	1.00	22.04
ATOM	135	OH	TYR	A	75	36.746	27.882	23.456	1.00	22.86
ATOM	136	N	TYR	A	76	31.432	30.653	29.507	1.00	13.66
ATOM	137	CA	TYR	A	76	30.478	31.360	30.368	1.00	12.95
ATOM	138	C	TYR	A	76	30.753	32.837	30.593	1.00	13.47
ATOM	139	O	TYR	A	76	31.901	33.345	30.391	1.00	13.77
ATOM	140	CB	TYR	A	76	30.395	30.662	31.725	1.00	13.31
ATOM	141	CG	TYR	A	76	31.723	30.548	32.446	1.00	14.55
ATOM	142	CD1	TYR	A	76	32.601	29.497	32.174	1.00	16.16
ATOM	143	CD2	TYR	A	76	32.105	31.495	33.392	1.00	15.68
ATOM	144	CE1	TYR	A	76	33.829	29.392	32.832	1.00	17.64
ATOM	145	CE2	TYR	A	76	33.329	31.402	34.055	1.00	18.14
ATOM	146	CZ	TYR	A	76	34.183	30.348	33.770	1.00	18.24
ATOM	147	OH	TYR	A	76	35.390	30.252	34.428	1.00	21.79
ATOM	148	N	VAL	A	77	29.716	33.546	31.017	1.00	12.55
ATOM	149	CA	VAL	A	77	29.844	34.980	31.298	1.00	14.17
ATOM	150	C	VAL	A	77	29.390	35.225	32.727	1.00	15.16
ATOM	151	O	VAL	A	77	28.564	34.439	33.283	1.00	16.09
ATOM	152	CB	VAL	A	77	28.975	35.821	30.336	1.00	13.43
ATOM	153	CG1	VAL	A	77	27.495	35.528	30.567	1.00	11.59
ATOM	154	CG2	VAL	A	77	29.281	37.305	30.524	1.00	10.74
ATOM	155	N	GLU	A	78	29.905	36.276	33.352	1.00	16.88
ATOM	156	CA	GLU	A	78	29.486	36.571	34.731	1.00	17.45
ATOM	157	C	GLU	A	78	28.178	37.345	34.706	1.00	16.89
ATOM	158	O	GLU	A	78	27.961	38.239	33.826	1.00	14.65
ATOM	159	CB	GLU	A	78	30.538	37.392	35.479	1.00	19.11
ATOM	160	CG	GLU	A	78	30.222	37.503	36.974	1.00	24.70
ATOM	161	CD	GLU	A	78	31.225	38.342	37.757	1.00	26.24
ATOM	162	OE1	GLU	A	78	31.162	39.584	37.679	1.00	27.53
ATOM	163	OE2	GLU	A	78	32.076	37.755	38.452	1.00	29.49
ATOM	164	N	MET	A	79	27.296	37.012	35.641	1.00	16.65
ATOM	165	CA	MET	A	79	25.992	37.684	35.761	1.00	17.22
ATOM	166	C	MET	A	79	25.610	37.768	37.232	1.00	17.77
ATOM	167	O	MET	A	79	26.208	37.066	38.100	1.00	18.29
ATOM	168	CB	MET	A	79	24.908	36.899	35.007	1.00	16.88
ATOM	169	CG	MET	A	79	25.070	36.874	33.492	1.00	16.65
ATOM	170	SD	MET	A	79	23.798	35.865	32.673	1.00	17.43
ATOM	171	CE	MET	A	79	22.442	37.003	32.577	1.00	15.55
ATOM	172	N	THR	A	80	24.637	38.617	37.539	1.00	17.73
ATOM	173	CA	THR	A	80	24.146	38.741	38.917	1.00	17.50
ATOM	174	C	THR	A	80	22.632	38.630	38.853	1.00	17.85
ATOM	175	O	THR	A	80	21.995	39.075	37.851	1.00	17.14
ATOM	176	CB	THR	A	80	24.524	40.100	39.550	1.00	18.12
ATOM	177	OG1	THR	A	80	23.851	41.158	38.857	1.00	18.55
ATOM	178	CG2	THR	A	80	26.031	40.328	39.474	1.00	16.48
ATOM	179	N	VAL	A	81	22.042	38.020	39.874	1.00	18.24
ATOM	180	CA	VAL	A	81	20.573	37.882	39.959	1.00	20.23
ATOM	181	C	VAL	A	81	20.145	38.274	41.375	1.00	21.18
ATOM	182	O	VAL	A	81	20.929	38.093	42.362	1.00	20.31

FIG. 1C

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ATOM    183  CB  VAL A  81      20.105  36.429  39.700  1.00 20.43
ATOM    184  CG1 VAL A  81      20.566  35.959  38.334  1.00 21.49
ATOM    185  CG2 VAL A  81      20.639  35.518  40.777  1.00 21.78
ATOM    186  N   GLY A  82      18.938  38.817  41.497  1.00 21.84
ATOM    187  CA  GLY A  82      18.421  39.200  42.799  1.00 21.10
ATOM    188  C   GLY A  82      18.973  40.475  43.404  1.00 21.47
ATOM    189  O   GLY A  82      19.864  41.159  42.814  1.00 21.97
ATOM    190  N   SER A  83      18.454  40.808  44.581  1.00 22.27
ATOM    191  CA  SER A  83      18.869  42.012  45.335  1.00 22.02
ATOM    192  C   SER A  83      18.996  41.607  46.795  1.00 20.16
ATOM    193  O   SER A  83      18.002  41.120  47.410  1.00 20.07
ATOM    194  CB  SER A  83      17.804  43.104  45.213  1.00 21.98
ATOM    195  OG  SER A  83      17.356  43.229  43.874  1.00 23.70
ATOM    196  N   PRO A  84      20.198  41.734  47.380  1.00 21.14
ATOM    197  CA  PRO A  84      21.454  42.221  46.785  1.00 20.45
ATOM    198  C   PRO A  84      21.911  41.288  45.656  1.00 20.37
ATOM    199  O   PRO A  84      21.508  40.086  45.606  1.00 18.46
ATOM    200  CB  PRO A  84      22.434  42.193  47.962  1.00 19.74
ATOM    201  CG  PRO A  84      21.548  42.320  49.166  1.00 20.71
ATOM    202  CD  PRO A  84      20.377  41.447  48.815  1.00 19.44
ATOM    203  N   PRO A  85      22.754  41.790  44.741  1.00 20.53
ATOM    204  CA  PRO A  85      23.258  40.997  43.616  1.00 20.58
ATOM    205  C   PRO A  85      23.949  39.706  44.046  1.00 20.81
ATOM    206  O   PRO A  85      24.854  39.720  44.936  1.00 21.15
ATOM    207  CB  PRO A  85      24.240  41.947  42.932  1.00 20.87
ATOM    208  CG  PRO A  85      23.732  43.294  43.282  1.00 22.23
ATOM    209  CD  PRO A  85      23.340  43.141  44.724  1.00 21.41
ATOM    210  N   GLN A  86      23.541  38.590  43.453  1.00 20.05
ATOM    211  CA  GLN A  86      24.174  37.289  43.752  1.00 19.63
ATOM    212  C   GLN A  86      24.904  36.923  42.472  1.00 20.50
ATOM    213  O   GLN A  86      24.263  36.622  41.412  1.00 19.85
ATOM    214  CB  GLN A  86      23.127  36.227  44.097  1.00 19.82
ATOM    215  CG  GLN A  86      22.283  36.586  45.314  1.00 18.97
ATOM    216  CD  GLN A  86      21.292  35.506  45.693  1.00 19.84
ATOM    217  OE1 GLN A  86      20.226  35.801  46.316  1.00 21.21
ATOM    218  NE2 GLN A  86      21.603  34.259  45.354  1.00 17.54
ATOM    219  N   THR A  87      26.229  36.969  42.527  1.00 19.61
ATOM    220  CA  THR A  87      27.057  36.669  41.346  1.00 19.61
ATOM    221  C   THR A  87      27.088  35.188  40.994  1.00 18.63
ATOM    222  O   THR A  87      27.220  34.302  41.892  1.00 18.56
ATOM    223  CB  THR A  87      28.501  37.164  41.549  1.00 19.88
ATOM    224  OG1 THR A  87      28.486  38.558  41.887  1.00 20.57
ATOM    225  CG2 THR A  87      29.304  36.977  40.278  1.00 18.65
ATOM    226  N   LEU A  88      26.972  34.907  39.701  1.00 18.38
ATOM    227  CA  LEU A  88      26.991  33.522  39.193  1.00 18.18
ATOM    228  C   LEU A  88      27.572  33.496  37.781  1.00 18.11
ATOM    229  O   LEU A  88      27.353  34.457  36.974  1.00 18.86
ATOM    230  CB  LEU A  88      25.568  32.952  39.159  1.00 16.21
ATOM    231  CG  LEU A  88      24.825  32.828  40.495  1.00 18.20
ATOM    232  CD1 LEU A  88      23.366  32.474  40.226  1.00 18.10
ATOM    233  CD2 LEU A  88      25.484  31.766  41.379  1.00 16.56
ATOM    234  N   ASN A  89      28.317  32.443  37.459  1.00 15.84
ATOM    235  CA  ASN A  89      28.876  32.312  36.101  1.00 16.22
ATOM    236  C   ASN A  89      27.841  31.544  35.300  1.00 16.03
ATOM    237  O   ASN A  89      27.363  30.450  35.735  1.00 15.05
ATOM    238  CB  ASN A  89      30.208  31.565  36.114  1.00 15.71
ATOM    239  CG  ASN A  89      31.324  32.396  36.700  1.00 16.10
ATOM    240  OD1 ASN A  89      31.390  33.650  36.477  1.00 15.48
ATOM    241  ND2 ASN A  89      32.217  31.750  37.439  1.00 14.07
ATOM    242  N   ILE A  90      27.485  32.091  34.145  1.00 15.55
ATOM    243  CA  ILE A  90      26.445  31.494  33.292  1.00 14.59
ATOM    244  C   ILE A  90      26.960  31.052  31.930  1.00 15.07
```

FIG. 1D

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ATOM    245  O   ILE A  90      27.578  31.867  31.173  1.00 13.01
ATOM    246  CB  ILE A  90      25.301  32.512  33.084  1.00 14.44
ATOM    247  CG1 ILE A  90      24.884  33.098  34.437  1.00 14.15
ATOM    248  CG2 ILE A  90      24.114  31.847  32.407  1.00 14.29
ATOM    249  CD1 ILE A  90      24.356  32.062  35.426  1.00 13.44
ATOM    250  N   LEU A  91      26.714  29.790  31.590  1.00 15.08
ATOM    251  CA  LEU A  91      27.153  29.249  30.284  1.00 15.63
ATOM    252  C   LEU A  91      26.313  29.878  29.174  1.00 16.04
ATOM    253  O   LEU A  91      25.041  29.904  29.250  1.00 16.72
ATOM    254  CB  LEU A  91      27.008  27.721  30.265  1.00 14.67
ATOM    255  CG  LEU A  91      27.450  26.945  29.012  1.00 15.49
ATOM    256  CD1 LEU A  91      27.692  25.485  29.364  1.00 15.10
ATOM    257  CD2 LEU A  91      26.393  27.052  27.925  1.00 15.54
ATOM    258  N   VAL A  92      26.995  30.408  28.164  1.00 16.13
ATOM    259  CA  VAL A  92      26.336  31.051  27.003  1.00 15.39
ATOM    260  C   VAL A  92      25.901  29.960  26.038  1.00 15.51
ATOM    261  O   VAL A  92      26.761  29.243  25.440  1.00 16.92
ATOM    262  CB  VAL A  92      27.306  32.008  26.278  1.00 15.40
ATOM    263  CG1 VAL A  92      26.668  32.523  24.994  1.00 16.99
ATOM    264  CG2 VAL A  92      27.671  33.172  27.200  1.00 13.64
ATOM    265  N   ASP A  93      24.594  29.824  25.845  1.00 16.41
ATOM    266  CA  ASP A  93      24.069  28.762  24.974  1.00 14.41
ATOM    267  C   ASP A  93      23.090  29.226  23.903  1.00 15.40
ATOM    268  O   ASP A  93      21.889  29.494  24.206  1.00 15.81
ATOM    269  CB  ASP A  93      23.411  27.701  25.861  1.00 16.00
ATOM    270  CG  ASP A  93      22.897  26.512  25.078  1.00 16.45
ATOM    271  OD1 ASP A  93      23.536  26.133  24.076  1.00 17.23
ATOM    272  OD2 ASP A  93      21.863  25.938  25.481  1.00 16.68
ATOM    273  N   THR A  94      23.550  29.326  22.657  1.00 13.38
ATOM    274  CA  THR A  94      22.636  29.745  21.574  1.00 13.70
ATOM    275  C   THR A  94      21.811  28.549  21.109  1.00 13.68
ATOM    276  O   THR A  94      20.941  28.671  20.190  1.00 14.18
ATOM    277  CB  THR A  94      23.397  30.349  20.362  1.00 14.99
ATOM    278  OG1 THR A  94      24.279  29.370  19.798  1.00 14.96
ATOM    279  CG2 THR A  94      24.201  31.568  20.794  1.00 14.04
ATOM    280  N   GLY A  95      22.053  27.392  21.719  1.00 14.90
ATOM    281  CA  GLY A  95      21.309  26.199  21.351  1.00 15.51
ATOM    282  C   GLY A  95      20.108  25.969  22.255  1.00 16.96
ATOM    283  O   GLY A  95      19.516  24.850  22.275  1.00 16.90
ATOM    284  N   SER A  96      19.721  26.987  23.011  1.00 17.38
ATOM    285  CA  SER A  96      18.562  26.851  23.922  1.00 17.95
ATOM    286  C   SER A  96      17.990  28.231  24.226  1.00 17.07
ATOM    287  O   SER A  96      18.573  29.269  23.803  1.00 14.94
ATOM    288  CB  SER A  96      19.005  26.174  25.219  1.00 18.55
ATOM    289  OG  SER A  96      19.640  26.894  26.276  1.00 26.99
ATOM    290  N   SER A  97      16.869  28.292  24.936  1.00 16.25
ATOM    291  CA  SER A  97      16.290  29.614  25.258  1.00 18.39
ATOM    292  C   SER A  97      15.740  29.776  26.670  1.00 17.83
ATOM    293  O   SER A  97      14.866  30.653  26.932  1.00 18.75
ATOM    294  CB  SER A  97      15.224  29.993  24.227  1.00 18.88
ATOM    295  OG  SER A  97      14.633  28.850  23.651  1.00 23.68
ATOM    296  N   ASN A  98      16.229  28.959  27.592  1.00 17.57
ATOM    297  CA  ASN A  98      15.809  29.073  28.993  1.00 16.01
ATOM    298  C   ASN A  98      16.963  29.611  29.821  1.00 16.51
ATOM    299  O   ASN A  98      18.127  29.109  29.709  1.00 16.69
ATOM    300  CB  ASN A  98      15.401  27.720  29.566  1.00 13.74
ATOM    301  CG  ASN A  98      13.969  27.359  29.241  1.00 16.04
ATOM    302  OD1 ASN A  98      13.669  26.795  28.139  1.00 13.27
ATOM    303  ND2 ASN A  98      13.058  27.680  30.158  1.00 13.26
ATOM    304  N   PHE A  99      16.688  30.640  30.614  1.00 14.45
ATOM    305  CA  PHE A  99      17.710  31.196  31.519  1.00 13.19
ATOM    306  C   PHE A  99      17.453  30.424  32.812  1.00 13.23
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FIG. 1E

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ATOM    307  O   PHE A  99      16.319  30.466  33.384  1.00 11.00
ATOM    308  CB  PHE A  99      17.491  32.699  31.722  1.00 13.54
ATOM    309  CG  PHE A  99      18.390  33.318  32.761  1.00 14.79
ATOM    310  CD1 PHE A  99      19.741  32.978  32.836  1.00 15.02
ATOM    311  CD2 PHE A  99      17.889  34.258  33.657  1.00 16.17
ATOM    312  CE1 PHE A  99      20.576  33.564  33.784  1.00 14.99
ATOM    313  CE2 PHE A  99      18.718  34.852  34.610  1.00 16.36
ATOM    314  CZ  PHE A  99      20.064  34.503  34.674  1.00 14.33
ATOM    315  N   ALA A 100      18.457  29.691  33.274  1.00 11.83
ATOM    316  CA  ALA A 100      18.298  28.889  34.497  1.00 12.34
ATOM    317  C   ALA A 100      19.594  28.836  35.277  1.00 14.53
ATOM    318  O   ALA A 100      20.722  28.896  34.684  1.00 15.19
ATOM    319  CB  ALA A 100      17.849  27.486  34.138  1.00 13.09
ATOM    320  N   VAL A 101      19.467  28.727  36.595  1.00 13.51
ATOM    321  CA  VAL A 101      20.640  28.686  37.473  1.00 13.80
ATOM    322  C   VAL A 101      20.429  27.693  38.610  1.00 15.86
ATOM    323  O   VAL A 101      19.253  27.424  39.031  1.00 13.90
ATOM    324  CB  VAL A 101      20.912  30.082  38.075  1.00 14.68
ATOM    325  CG1 VAL A 101      21.126  31.098  36.962  1.00 12.49
ATOM    326  CG2 VAL A 101      19.743  30.509  38.953  1.00 13.11
ATOM    327  N   GLY A 102      21.528  27.120  39.098  1.00 16.51
ATOM    328  CA  GLY A 102      21.437  26.189  40.207  1.00 17.46
ATOM    329  C   GLY A 102      20.858  26.966  41.375  1.00 19.61
ATOM    330  O   GLY A 102      21.303  28.128  41.641  1.00 19.12
ATOM    331  N   ALA A 103      19.875  26.395  42.065  1.00 19.81
ATOM    332  CA  ALA A 103      19.241  27.092  43.212  1.00 22.41
ATOM    333  C   ALA A 103      19.098  26.169  44.414  1.00 23.71
ATOM    334  O   ALA A 103      18.196  26.366  45.293  1.00 24.50
ATOM    335  CB  ALA A 103      17.880  27.627  42.807  1.00 21.12
ATOM    336  N   ALA A 104      19.967  25.168  44.470  1.00 23.53
ATOM    337  CA  ALA A 104      19.979  24.180  45.566  1.00 24.47
ATOM    338  C   ALA A 104      21.341  23.505  45.517  1.00 24.98
ATOM    339  O   ALA A 104      21.974  23.413  44.419  1.00 26.65
ATOM    340  CB  ALA A 104      18.869  23.150  45.367  1.00 23.55
ATOM    341  N   PRO A 105      21.836  23.026  46.668  1.00 25.27
ATOM    342  CA  PRO A 105      23.140  22.361  46.733  1.00 24.87
ATOM    343  C   PRO A 105      23.328  21.286  45.672  1.00 24.16
ATOM    344  O   PRO A 105      22.350  20.594  45.251  1.00 24.35
ATOM    345  CB  PRO A 105      23.159  21.778  48.143  1.00 25.36
ATOM    346  CG  PRO A 105      22.347  22.763  48.920  1.00 25.71
ATOM    347  CD  PRO A 105      21.183  23.020  47.990  1.00 25.99
ATOM    348  N   HIS A 106      24.566  21.135  45.227  1.00 24.93
ATOM    349  CA  HIS A 106      24.918  20.119  44.223  1.00 23.63
ATOM    350  C   HIS A 106      26.402  19.843  44.367  1.00 24.29
ATOM    351  O   HIS A 106      27.207  20.790  44.596  1.00 24.19
ATOM    352  CB  HIS A 106      24.646  20.622  42.807  1.00 24.15
ATOM    353  CG  HIS A 106      24.887  19.587  41.756  1.00 24.43
ATOM    354  ND1 HIS A 106      23.912  18.702  41.348  1.00 25.53
ATOM    355  CD2 HIS A 106      26.012  19.244  41.084  1.00 23.79
ATOM    356  CE1 HIS A 106      24.426  17.857  40.471  1.00 25.66
ATOM    357  NE2 HIS A 106      25.699  18.164  40.294  1.00 24.92
ATOM    358  N   PRO A 107      26.811  18.572  44.236  1.00 25.36
ATOM    359  CA  PRO A 107      28.224  18.200  44.358  1.00 26.23
ATOM    360  C   PRO A 107      29.164  19.025  43.474  1.00 26.26
ATOM    361  O   PRO A 107      30.335  19.296  43.866  1.00 28.01
ATOM    362  CB  PRO A 107      28.225  16.722  43.972  1.00 26.21
ATOM    363  CG  PRO A 107      26.875  16.259  44.418  1.00 26.75
ATOM    364  CD  PRO A 107      25.977  17.384  43.971  1.00 25.04
ATOM    365  N   PHE A 108      28.695  19.435  42.299  1.00 25.94
ATOM    366  CA  PHE A 108      29.556  20.218  41.384  1.00 26.76
ATOM    367  C   PHE A 108      29.358  21.726  41.450  1.00 26.66
ATOM    368  O   PHE A 108      30.103  22.494  40.778  1.00 26.81
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FIG. 1F

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ATOM    369  CB  PHE A 108      29.368  19.754  39.936  1.00 26.67
ATOM    370  CG  PHE A 108      29.665  18.300  39.720  1.00 26.80
ATOM    371  CD1 PHE A 108      30.531  17.614  40.569  1.00 27.67
ATOM    372  CD2 PHE A 108      29.090  17.615  38.655  1.00 27.12
ATOM    373  CE1 PHE A 108      30.819  16.262  40.359  1.00 27.99
ATOM    374  CE2 PHE A 108      29.369  16.267  38.433  1.00 26.65
ATOM    375  CZ  PHE A 108      30.235  15.587  39.286  1.00 26.94
ATOM    376  N   LEU A 109      28.386  22.180  42.231  1.00 26.14
ATOM    377  CA  LEU A 109      28.144  23.629  42.346  1.00 27.17
ATOM    378  C   LEU A 109      28.914  24.248  43.510  1.00 29.20
ATOM    379  O   LEU A 109      28.861  23.743  44.669  1.00 26.91
ATOM    380  CB  LEU A 109      26.647  23.911  42.498  1.00 25.73
ATOM    381  CG  LEU A 109      25.811  23.714  41.230  1.00 25.94
ATOM    382  CD1 LEU A 109      24.343  23.983  41.530  1.00 24.99
ATOM    383  CD2 LEU A 109      26.310  24.657  40.136  1.00 24.26
ATOM    384  N   HIS A 110      29.632  25.328  43.213  1.00 32.94
ATOM    385  CA  HIS A 110      30.442  26.077  44.207  1.00 35.82
ATOM    386  C   HIS A 110      29.533  27.015  44.983  1.00 33.93
ATOM    387  O   HIS A 110      29.732  27.265  46.209  1.00 34.20
ATOM    388  CB  HIS A 110      31.501  26.915  43.485  1.00 42.49
ATOM    389  CG  HIS A 110      32.907  26.469  43.732  1.00 47.84
ATOM    390  ND1 HIS A 110      33.509  26.558  44.969  1.00 50.74
ATOM    391  CD2 HIS A 110      33.834  25.934  42.899  1.00 49.74
ATOM    392  CE1 HIS A 110      34.746  26.098  44.888  1.00 51.83
ATOM    393  NE2 HIS A 110      34.968  25.713  43.644  1.00 51.38
ATOM    394  N   ARG A 111      28.547  27.553  44.279  1.00 31.13
ATOM    395  CA  ARG A 111      27.579  28.494  44.857  1.00 28.72
ATOM    396  C   ARG A 111      26.287  28.331  44.072  1.00 28.16
ATOM    397  O   ARG A 111      26.267  27.652  43.000  1.00 27.40
ATOM    398  CB  ARG A 111      28.108  29.924  44.717  1.00 28.09
ATOM    399  CG  ARG A 111      28.550  30.255  43.305  1.00 26.48
ATOM    400  CD  ARG A 111      29.216  31.616  43.201  1.00 25.86
ATOM    401  NE  ARG A 111      29.723  31.831  41.849  1.00 25.21
ATOM    402  CZ  ARG A 111      30.423  32.892  41.465  1.00 24.44
ATOM    403  NH1 ARG A 111      30.708  33.850  42.337  1.00 25.08
ATOM    404  NH2 ARG A 111      30.828  32.995  40.205  1.00 22.62
ATOM    405  N   TYR A 112      25.207  28.922  44.566  1.00 26.27
ATOM    406  CA  TYR A 112      23.922  28.814  43.866  1.00 23.70
ATOM    407  C   TYR A 112      22.955  29.916  44.250  1.00 22.77
ATOM    408  O   TYR A 112      23.140  30.633  45.283  1.00 21.10
ATOM    409  CB  TYR A 112      23.295  27.437  44.119  1.00 25.47
ATOM    410  CG  TYR A 112      23.036  27.111  45.575  1.00 27.20
ATOM    411  CD1 TYR A 112      21.885  27.569  46.222  1.00 28.51
ATOM    412  CD2 TYR A 112      23.946  26.353  46.309  1.00 27.51
ATOM    413  CE1 TYR A 112      21.647  27.276  47.565  1.00 27.78
ATOM    414  CE2 TYR A 112      23.720  26.058  47.651  1.00 28.63
ATOM    415  CZ  TYR A 112      22.570  26.522  48.270  1.00 28.98
ATOM    416  OH  TYR A 112      22.352  26.228  49.591  1.00 30.28
ATOM    417  N   TYR A 113      21.927  30.069  43.428  1.00 19.32
ATOM    418  CA  TYR A 113      20.896  31.090  43.624  1.00 18.94
ATOM    419  C   TYR A 113      20.047  30.807  44.857  1.00 17.90
ATOM    420  O   TYR A 113      19.480  29.688  45.011  1.00 19.37
ATOM    421  CB  TYR A 113      20.027  31.141  42.369  1.00 17.76
ATOM    422  CG  TYR A 113      18.887  32.135  42.378  1.00 17.68
ATOM    423  CD1 TYR A 113      19.024  33.397  42.963  1.00 16.86
ATOM    424  CD2 TYR A 113      17.709  31.854  41.688  1.00 16.79
ATOM    425  CE1 TYR A 113      18.020  34.349  42.848  1.00 17.05
ATOM    426  CE2 TYR A 113      16.704  32.796  41.563  1.00 16.02
ATOM    427  CZ  TYR A 113      16.858  34.038  42.138  1.00 17.36
ATOM    428  OH  TYR A 113      15.848  34.963  41.984  1.00 16.62
ATOM    429  N   GLN A 114      19.967  31.790  45.746  1.00 18.68
ATOM    430  CA  GLN A 114      19.156  31.673  46.983  1.00 20.28
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FIG. 1G

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ATOM    431  C   GLN A 114      18.057  32.719  46.897  1.00 19.59
ATOM    432  O   GLN A 114      18.285  33.933  47.192  1.00 20.34
ATOM    433  CB  GLN A 114      20.028  31.912  48.216  1.00 19.79
ATOM    434  CG  GLN A 114      21.048  30.814  48.434  1.00 22.79
ATOM    435  CD  GLN A 114      21.942  31.063  49.626  1.00 24.34
ATOM    436  OE1 GLN A 114      22.708  32.073  49.668  1.00 26.47
ATOM    437  NE2 GLN A 114      21.876  30.173  50.606  1.00 24.49
ATOM    438  N   ARG A 115      16.876  32.275  46.479  1.00 20.48
ATOM    439  CA  ARG A 115      15.703  33.159  46.305  1.00 21.24
ATOM    440  C   ARG A 115      15.234  33.837  47.583  1.00 21.94
ATOM    441  O   ARG A 115      14.784  35.022  47.546  1.00 21.40
ATOM    442  CB  ARG A 115      14.550  32.366  45.686  1.00 20.21
ATOM    443  CG  ARG A 115      14.807  31.953  44.240  1.00 20.95
ATOM    444  CD  ARG A 115      13.917  30.796  43.824  1.00 20.32
ATOM    445  NE  ARG A 115      14.305  29.567  44.508  1.00 20.45
ATOM    446  CZ  ARG A 115      13.626  28.428  44.448  1.00 19.47
ATOM    447  NH1 ARG A 115      12.514  28.352  43.732  1.00 20.02
ATOM    448  NH2 ARG A 115      14.061  27.366  45.106  1.00 21.63
ATOM    449  N   GLN A 116      15.323  33.138  48.710  1.00 22.93
ATOM    450  CA  GLN A 116      14.880  33.723  49.993  1.00 24.99
ATOM    451  C   GLN A 116      15.718  34.953  50.343  1.00 23.86
ATOM    452  O   GLN A 116      15.242  35.873  51.080  1.00 24.27
ATOM    453  CB  GLN A 116      14.972  32.691  51.123  1.00 27.81
ATOM    454  CG  GLN A 116      16.391  32.280  51.502  1.00 32.89
ATOM    455  CD  GLN A 116      16.999  31.257  50.550  1.00 36.05
ATOM    456  OE1 GLN A 116      16.955  31.423  49.295  1.00 36.88
ATOM    457  NE2 GLN A 116      17.577  30.199  51.112  1.00 37.21
ATOM    458  N   LEU A 117      16.944  35.006  49.833  1.00 20.91
ATOM    459  CA  LEU A 117      17.831  36.153  50.112  1.00 20.59
ATOM    460  C   LEU A 117      17.673  37.296  49.124  1.00 19.96
ATOM    461  O   LEU A 117      18.440  38.301  49.191  1.00 18.93
ATOM    462  CB  LEU A 117      19.296  35.707  50.128  1.00 21.68
ATOM    463  CG  LEU A 117      19.887  35.224  51.454  1.00 22.49
ATOM    464  CD1 LEU A 117      19.001  34.175  52.074  1.00 22.63
ATOM    465  CD2 LEU A 117      21.286  34.675  51.210  1.00 22.12
ATOM    466  N   SER A 118      16.714  37.183  48.210  1.00 18.14
ATOM    467  CA  SER A 118      16.484  38.252  47.208  1.00 17.08
ATOM    468  C   SER A 118      15.150  38.953  47.436  1.00 16.25
ATOM    469  O   SER A 118      14.055  38.316  47.347  1.00 16.00
ATOM    470  CB  SER A 118      16.519  37.679  45.787  1.00 15.12
ATOM    471  OG  SER A 118      16.301  38.708  44.835  1.00 16.81
ATOM    472  N   SER A 119      15.210  40.250  47.711  1.00 15.31
ATOM    473  CA  SER A 119      13.991  41.044  47.973  1.00 18.09
ATOM    474  C   SER A 119      13.169  41.307  46.714  1.00 17.35
ATOM    475  O   SER A 119      11.964  41.669  46.800  1.00 17.62
ATOM    476  CB  SER A 119      14.371  42.380  48.618  1.00 16.85
ATOM    477  OG  SER A 119      15.158  43.160  47.727  1.00 18.71
ATOM    478  N   THR A 120      13.781  41.137  45.546  1.00 18.90
ATOM    479  CA  THR A 120      13.075  41.381  44.263  1.00 17.26
ATOM    480  C   THR A 120      12.587  40.104  43.594  1.00 17.17
ATOM    481  O   THR A 120      12.004  40.139  42.466  1.00 18.70
ATOM    482  CB  THR A 120      13.980  42.143  43.283  1.00 17.78
ATOM    483  OG1 THR A 120      15.305  41.609  43.355  1.00 17.35
ATOM    484  CG2 THR A 120      14.012  43.630  43.624  1.00 17.37
ATOM    485  N   TYR A 121      12.800  38.977  44.257  1.00 18.03
ATOM    486  CA  TYR A 121      12.364  37.676  43.715  1.00 18.53
ATOM    487  C   TYR A 121      10.841  37.584  43.606  1.00 18.12
ATOM    488  O   TYR A 121      10.088  38.028  44.531  1.00 19.29
ATOM    489  CB  TYR A 121      12.878  36.547  44.607  1.00 18.32
ATOM    490  CG  TYR A 121      12.187  35.225  44.368  1.00 22.03
ATOM    491  CD1 TYR A 121      12.429  34.484  43.209  1.00 21.48
ATOM    492  CD2 TYR A 121      11.268  34.725  45.291  1.00 21.95
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FIG. 1H

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ATOM    493  CE1 TYR A 121      11.776  33.280  42.977  1.00 21.33
ATOM    494  CE2 TYR A 121      10.608  33.523  45.067  1.00 22.77
ATOM    495  CZ  TYR A 121      10.867  32.807  43.908  1.00 23.35
ATOM    496  OH  TYR A 121      10.206  31.622  43.682  1.00 23.63
ATOM    497  N   ARG A 122      10.365  37.039  42.492  1.00 16.86
ATOM    498  CA  ARG A 122       8.909  36.851  42.281  1.00 16.79
ATOM    499  C   ARG A 122       8.703  35.397  41.890  1.00 17.46
ATOM    500  O   ARG A 122       9.348  34.884  40.924  1.00 17.88
ATOM    501  CB  ARG A 122       8.384  37.764  41.174  1.00 14.87
ATOM    502  CG  ARG A 122       8.335  39.230  41.548  1.00 14.83
ATOM    503  CD  ARG A 122       7.895  40.067  40.369  1.00 14.98
ATOM    504  NE  ARG A 122       7.822  41.481  40.706  1.00 16.19
ATOM    505  CZ  ARG A 122       7.546  42.442  39.833  1.00 16.67
ATOM    506  NH1 ARG A 122       7.316  42.142  38.559  1.00 15.67
ATOM    507  NH2 ARG A 122       7.505  43.704  40.233  1.00 16.38
ATOM    508  N   ASP A 123       7.836  34.720  42.628  1.00 18.52
ATOM    509  CA  ASP A 123       7.538  33.296  42.388  1.00 19.00
ATOM    510  C   ASP A 123       6.435  33.147  41.347  1.00 19.87
ATOM    511  O   ASP A 123       5.342  33.757  41.490  1.00 17.59
ATOM    512  CB  ASP A 123       7.090  32.657  43.702  1.00 19.80
ATOM    513  CG  ASP A 123       6.841  31.171  43.582  1.00 20.76
ATOM    514  OD1 ASP A 123       6.933  30.615  42.463  1.00 20.41
ATOM    515  OD2 ASP A 123       6.549  30.559  44.629  1.00 22.50
ATOM    516  N   LEU A 124       6.689  32.359  40.305  1.00 20.70
ATOM    517  CA  LEU A 124       5.672  32.139  39.255  1.00 21.20
ATOM    518  C   LEU A 124       4.790  30.929  39.562  1.00 21.64
ATOM    519  O   LEU A 124       3.832  30.601  38.786  1.00 21.17
ATOM    520  CB  LEU A 124       6.343  31.978  37.888  1.00 21.51
ATOM    521  CG  LEU A 124       6.850  33.288  37.270  1.00 22.05
ATOM    522  CD1 LEU A 124       7.617  32.994  35.997  1.00 22.23
ATOM    523  CD2 LEU A 124       5.678  34.217  36.983  1.00 21.49
ATOM    524  N   ARG A 125       5.083  30.252  40.666  1.00 22.67
ATOM    525  CA  ARG A 125       4.286  29.078  41.085  1.00 25.58
ATOM    526  C   ARG A 125       4.106  28.081  39.944  1.00 26.39
ATOM    527  O   ARG A 125       2.974  27.552  39.719  1.00 26.83
ATOM    528  CB  ARG A 125       2.918  29.553  41.593  1.00 26.62
ATOM    529  CG  ARG A 125       3.016  30.511  42.783  1.00 30.02
ATOM    530  CD  ARG A 125       1.733  31.311  43.002  1.00 32.48
ATOM    531  NE  ARG A 125       1.910  32.334  44.034  1.00 36.63
ATOM    532  CZ  ARG A 125       1.049  33.323  44.282  1.00 38.12
ATOM    533  NH1 ARG A 125      -0.070  33.441  43.575  1.00 37.55
ATOM    534  NH2 ARG A 125       1.307  34.202  45.240  1.00 38.11
ATOM    535  N   LYS A 126       5.189  27.810  39.221  1.00 26.62
ATOM    536  CA  LYS A 126       5.162  26.861  38.079  1.00 26.41
ATOM    537  C   LYS A 126       6.453  26.063  37.986  1.00 24.61
ATOM    538  O   LYS A 126       7.577  26.624  38.141  1.00 22.46
ATOM    539  CB  LYS A 126       4.971  27.605  36.756  1.00 28.55
ATOM    540  CG  LYS A 126       3.539  27.804  36.326  1.00 32.76
ATOM    541  CD  LYS A 126       3.486  28.380  34.917  1.00 36.53
ATOM    542  CE  LYS A 126       2.048  28.607  34.456  1.00 38.52
ATOM    543  NZ  LYS A 126       1.234  27.355  34.550  1.00 40.78
ATOM    544  N   GLY A 127       6.326  24.770  37.731  1.00 23.25
ATOM    545  CA  GLY A 127       7.504  23.941  37.598  1.00 22.82
ATOM    546  C   GLY A 127       7.970  23.995  36.157  1.00 22.77
ATOM    547  O   GLY A 127       7.220  24.487  35.252  1.00 22.00
ATOM    548  N   VAL A 128       9.184  23.521  35.909  1.00 21.58
ATOM    549  CA  VAL A 128       9.731  23.511  34.541  1.00 22.39
ATOM    550  C   VAL A 128      10.736  22.388  34.390  1.00 21.31
ATOM    551  O   VAL A 128      11.547  22.101  35.323  1.00 21.59
ATOM    552  CB  VAL A 128      10.416  24.851  34.180  1.00 21.77
ATOM    553  CG1 VAL A 128      11.572  25.120  35.122  1.00 22.15
ATOM    554  CG2 VAL A 128      10.903  24.809  32.740  1.00 23.66
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FIG. 1I

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ATOM    555  N   TYR A 129      10.700  21.744  33.233  1.00 21.64
ATOM    556  CA  TYR A 129      11.598  20.624  32.933  1.00 21.55
ATOM    557  C   TYR A 129      12.298  20.882  31.609  1.00 20.25
ATOM    558  O   TYR A 129      11.635  21.188  30.573  1.00 20.01
ATOM    559  CB  TYR A 129      10.785  19.333  32.841  1.00 23.37
ATOM    560  CG  TYR A 129      11.545  18.164  32.271  1.00 26.64
ATOM    561  CD1 TYR A 129      12.628  17.613  32.956  1.00 27.70
ATOM    562  CD2 TYR A 129      11.178  17.598  31.048  1.00 27.27
ATOM    563  CE1 TYR A 129      13.323  16.529  32.443  1.00 29.33
ATOM    564  CE2 TYR A 129      11.872  16.507  30.524  1.00 28.75
ATOM    565  CZ  TYR A 129      12.942  15.980  31.231  1.00 28.91
ATOM    566  OH  TYR A 129      13.634  14.896  30.751  1.00 30.21
ATOM    567  N   VAL A 130      13.620  20.782  31.602  1.00 19.35
ATOM    568  CA  VAL A 130      14.353  21.003  30.350  1.00 17.21
ATOM    569  C   VAL A 130      15.308  19.872  30.022  1.00 16.02
ATOM    570  O   VAL A 130      16.319  19.628  30.748  1.00 16.89
ATOM    571  CB  VAL A 130      15.136  22.334  30.370  1.00 17.86
ATOM    572  CG1 VAL A 130      15.934  22.485  29.075  1.00 15.31
ATOM    573  CG2 VAL A 130      14.163  23.505  30.525  1.00 15.67
ATOM    574  N   PRO A 131      15.013  19.136  28.945  1.00 14.83
ATOM    575  CA  PRO A 131      15.868  18.028  28.529  1.00 14.77
ATOM    576  C   PRO A 131      16.743  18.516  27.372  1.00 15.00
ATOM    577  O   PRO A 131      16.234  19.154  26.402  1.00 15.43
ATOM    578  CB  PRO A 131      14.857  16.971  28.106  1.00 13.57
ATOM    579  CG  PRO A 131      13.809  17.806  27.421  1.00 13.44
ATOM    580  CD  PRO A 131      13.706  19.078  28.262  1.00 13.99
ATOM    581  N   TYR A 132      18.043  18.268  27.465  1.00 14.75
ATOM    582  CA  TYR A 132      18.989  18.679  26.404  1.00 17.37
ATOM    583  C   TYR A 132      19.438  17.415  25.676  1.00 17.52
ATOM    584  O   TYR A 132      19.100  16.274  26.105  1.00 17.41
ATOM    585  CB  TYR A 132      20.211  19.369  27.020  1.00 16.93
ATOM    586  CG  TYR A 132      19.909  20.665  27.742  1.00 18.63
ATOM    587  CD1 TYR A 132      19.834  21.881  27.051  1.00 17.88
ATOM    588  CD2 TYR A 132      19.706  20.681  29.122  1.00 19.01
ATOM    589  CE1 TYR A 132      19.564  23.080  27.722  1.00 16.57
ATOM    590  CE2 TYR A 132      19.435  21.867  29.799  1.00 17.74
ATOM    591  CZ  TYR A 132      19.365  23.062  29.098  1.00 19.02
ATOM    592  OH  TYR A 132      19.083  24.229  29.782  1.00 18.23
ATOM    593  N   THR A 133      20.188  17.574  24.592  1.00 18.46
ATOM    594  CA  THR A 133      20.686  16.403  23.842  1.00 18.54
ATOM    595  C   THR A 133      21.525  15.580  24.812  1.00 20.42
ATOM    596  O   THR A 133      21.667  14.325  24.672  1.00 19.49
ATOM    597  CB  THR A 133      21.546  16.846  22.653  1.00 18.40
ATOM    598  OG1 THR A 133      20.720  17.539  21.708  1.00 20.46
ATOM    599  CG2 THR A 133      22.194  15.645  21.976  1.00 18.37
ATOM    600  N   GLN A 134      22.064  16.265  25.810  1.00 22.23
ATOM    601  CA  GLN A 134      22.890  15.624  26.842  1.00 24.27
ATOM    602  C   GLN A 134      22.723  16.406  28.140  1.00 23.32
ATOM    603  O   GLN A 134      23.179  17.580  28.252  1.00 21.03
ATOM    604  CB  GLN A 134      24.352  15.633  26.405  1.00 28.22
ATOM    605  CG  GLN A 134      25.140  14.412  26.808  1.00 32.76
ATOM    606  CD  GLN A 134      25.020  13.296  25.781  1.00 36.63
ATOM    607  OE1 GLN A 134      26.052  12.680  25.356  1.00 37.34
ATOM    608  NE2 GLN A 134      23.791  13.018  25.352  1.00 38.92
ATOM    609  N   GLY A 135      22.080  15.789  29.124  1.00 23.28
ATOM    610  CA  GLY A 135      21.863  16.460  30.391  1.00 21.50
ATOM    611  C   GLY A 135      20.432  16.946  30.483  1.00 22.11
ATOM    612  O   GLY A 135      19.735  17.111  29.435  1.00 20.68
ATOM    613  N   LYS A 136      19.968  17.190  31.703  1.00 22.97
ATOM    614  CA  LYS A 136      18.584  17.654  31.923  1.00 23.80
ATOM    615  C   LYS A 136      18.429  18.147  33.353  1.00 22.33
ATOM    616  O   LYS A 136      19.196  17.719  34.269  1.00 21.42
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FIG. 1J

ATOM	617	CB	LYS	A	136	17.606	16.501	31.677	1.00 25.37
ATOM	618	CG	LYS	A	136	17.823	15.310	32.607	1.00 28.29
ATOM	619	CD	LYS	A	136	16.804	14.196	32.374	1.00 31.54
ATOM	620	CE	LYS	A	136	16.955	13.570	31.000	1.00 34.21
ATOM	621	NZ	LYS	A	136	15.996	12.444	30.789	1.00 37.76
ATOM	622	N	TRP	A	137	17.470	19.040	33.573	1.00 21.02
ATOM	623	CA	TRP	A	137	17.214	19.562	34.928	1.00 20.75
ATOM	624	C	TRP	A	137	15.750	19.907	35.133	1.00 20.62
ATOM	625	O	TRP	A	137	14.951	19.978	34.153	1.00 20.05
ATOM	626	CB	TRP	A	137	18.077	20.800	35.231	1.00 18.46
ATOM	627	CG	TRP	A	137	17.960	21.937	34.248	1.00 18.02
ATOM	628	CD1	TRP	A	137	18.865	22.276	33.281	1.00 18.12
ATOM	629	CD2	TRP	A	137	16.881	22.879	34.134	1.00 17.27
ATOM	630	NE1	TRP	A	137	18.419	23.369	32.574	1.00 17.78
ATOM	631	CE2	TRP	A	137	17.204	23.758	33.074	1.00 17.40
ATOM	632	CE3	TRP	A	137	15.675	23.067	34.823	1.00 17.08
ATOM	633	CZ2	TRP	A	137	16.363	24.807	32.684	1.00 15.50
ATOM	634	CZ3	TRP	A	137	14.836	24.113	34.434	1.00 17.23
ATOM	635	CH2	TRP	A	137	15.188	24.968	33.373	1.00 17.46
ATOM	636	N	GLU	A	138	15.385	20.098	36.395	1.00 21.53
ATOM	637	CA	GLU	A	138	14.014	20.472	36.789	1.00 24.94
ATOM	638	C	GLU	A	138	14.166	21.642	37.745	1.00 23.18
ATOM	639	O	GLU	A	138	15.168	21.719	38.526	1.00 21.21
ATOM	640	CB	GLU	A	138	13.320	19.320	37.515	1.00 28.46
ATOM	641	CG	GLU	A	138	13.053	18.101	36.656	1.00 34.91
ATOM	642	CD	GLU	A	138	12.562	16.919	37.472	1.00 37.93
ATOM	643	OE1	GLU	A	138	12.175	15.897	36.864	1.00 40.28
ATOM	644	OE2	GLU	A	138	12.570	17.009	38.722	1.00 40.20
ATOM	645	N	GLY	A	139	13.214	22.559	37.711	1.00 22.13
ATOM	646	CA	GLY	A	139	13.298	23.693	38.604	1.00 22.60
ATOM	647	C	GLY	A	139	11.975	24.402	38.713	1.00 21.54
ATOM	648	O	GLY	A	139	10.949	23.953	38.116	1.00 23.29
ATOM	649	N	GLU	A	140	11.962	25.494	39.465	1.00 21.74
ATOM	650	CA	GLU	A	140	10.733	26.284	39.648	1.00 21.81
ATOM	651	C	GLU	A	140	10.900	27.646	38.998	1.00 19.04
ATOM	652	O	GLU	A	140	11.975	28.304	39.125	1.00 18.42
ATOM	653	CB	GLU	A	140	10.404	26.425	41.139	1.00 24.39
ATOM	654	CG	GLU	A	140	11.479	25.887	42.065	1.00 28.61
ATOM	655	CD	GLU	A	140	10.922	25.385	43.383	1.00 29.72
ATOM	656	OE1	GLU	A	140	10.311	24.297	43.389	1.00 31.43
ATOM	657	OE2	GLU	A	140	11.091	26.077	44.410	1.00 30.48
ATOM	658	N	LEU	A	141	9.870	28.071	38.278	1.00 16.35
ATOM	659	CA	LEU	A	141	9.901	29.360	37.585	1.00 15.48
ATOM	660	C	LEU	A	141	9.674	30.546	38.511	1.00 15.68
ATOM	661	O	LEU	A	141	8.832	30.499	39.466	1.00 13.45
ATOM	662	CB	LEU	A	141	8.864	29.376	36.460	1.00 15.23
ATOM	663	CG	LEU	A	141	9.145	28.412	35.300	1.00 16.27
ATOM	664	CD1	LEU	A	141	8.008	28.461	34.300	1.00 15.60
ATOM	665	CD2	LEU	A	141	10.458	28.785	34.627	1.00 16.48
ATOM	666	N	GLY	A	142	10.424	31.608	38.241	1.00 15.15
ATOM	667	CA	GLY	A	142	10.323	32.819	39.015	1.00 12.33
ATOM	668	C	GLY	A	142	10.845	33.953	38.167	1.00 14.67
ATOM	669	O	GLY	A	142	11.242	33.758	36.971	1.00 13.75
ATOM	670	N	THR	A	143	10.877	35.137	38.754	1.00 14.88
ATOM	671	CA	THR	A	143	11.354	36.324	38.050	1.00 15.26
ATOM	672	C	THR	A	143	12.262	37.103	39.008	1.00 14.53
ATOM	673	O	THR	A	143	12.119	36.991	40.269	1.00 13.46
ATOM	674	CB	THR	A	143	10.131	37.154	37.600	1.00 16.18
ATOM	675	OG1	THR	A	143	10.192	37.362	36.187	1.00 20.69
ATOM	676	CG2	THR	A	143	10.058	38.465	38.325	1.00 12.43
ATOM	677	N	ASP	A	144	13.202	37.866	38.466	1.00 14.22
ATOM	678	CA	ASP	A	144	14.117	38.652	39.321	1.00 15.38

FIG. 1K

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ATOM    679  C   ASP A 144      14.942  39.609  38.479  1.00 15.67
ATOM    680  O   ASP A 144      14.984  39.496  37.208  1.00 16.83
ATOM    681  CB  ASP A 144      15.063  37.721  40.086  1.00 15.20
ATOM    682  CG  ASP A 144      15.367  38.218  41.496  1.00 17.84
ATOM    683  OD1 ASP A 144      15.359  39.447  41.724  1.00 16.62
ATOM    684  OD2 ASP A 144      15.630  37.373  42.379  1.00 16.33
ATOM    685  N   LEU A 145      15.596  40.551  39.147  1.00 16.74
ATOM    686  CA  LEU A 145      16.442  41.537  38.454  1.00 18.66
ATOM    687  C   LEU A 145      17.757  40.854  38.101  1.00 20.21
ATOM    688  O   LEU A 145      18.381  40.147  38.961  1.00 21.75
ATOM    689  CB  LEU A 145      16.697  42.746  39.351  1.00 18.43
ATOM    690  CG  LEU A 145      15.452  43.522  39.786  1.00 19.69
ATOM    691  CD1 LEU A 145      15.878  44.720  40.628  1.00 19.11
ATOM    692  CD2 LEU A 145      14.660  43.971  38.557  1.00 18.50
ATOM    693  N   VAL A 146      18.186  41.030  36.858  1.00 20.48
ATOM    694  CA  VAL A 146      19.426  40.402  36.387  1.00 21.21
ATOM    695  C   VAL A 146      20.331  41.426  35.725  1.00 22.80
ATOM    696  O   VAL A 146      19.849  42.386  35.045  1.00 22.16
ATOM    697  CB  VAL A 146      19.118  39.265  35.373  1.00 20.39
ATOM    698  CG1 VAL A 146      20.405  38.575  34.941  1.00 20.39
ATOM    699  CG2 VAL A 146      18.163  38.261  35.998  1.00 17.90
ATOM    700  N   SER A 147      21.633  41.251  35.913  1.00 22.35
ATOM    701  CA  SER A 147      22.615  42.158  35.309  1.00 23.39
ATOM    702  C   SER A 147      23.829  41.383  34.833  1.00 21.77
ATOM    703  O   SER A 147      24.119  40.242  35.321  1.00 20.08
ATOM    704  CB  SER A 147      23.059  43.225  36.316  1.00 25.41
ATOM    705  OG  SER A 147      21.993  44.107  36.627  1.00 31.97
ATOM    706  N   ILE A 148      24.534  41.972  33.878  1.00 19.69
ATOM    707  CA  ILE A 148      25.757  41.377  33.329  1.00 19.14
ATOM    708  C   ILE A 148      26.853  42.405  33.614  1.00 18.85
ATOM    709  O   ILE A 148      27.021  43.408  32.853  1.00 17.87
ATOM    710  CB  ILE A 148      25.618  41.137  31.817  1.00 18.61
ATOM    711  CG1 ILE A 148      24.449  40.181  31.559  1.00 19.01
ATOM    712  CG2 ILE A 148      26.909  40.564  31.255  1.00 17.68
ATOM    713  CD1 ILE A 148      24.221  39.864  30.097  1.00 19.61
ATOM    714  N   PRO A 149      27.601  42.214  34.711  1.00 17.99
ATOM    715  CA  PRO A 149      28.679  43.134  35.095  1.00 21.17
ATOM    716  C   PRO A 149      29.523  43.638  33.926  1.00 22.18
ATOM    717  O   PRO A 149      29.800  44.869  33.823  1.00 24.08
ATOM    718  CB  PRO A 149      29.485  42.317  36.103  1.00 19.87
ATOM    719  CG  PRO A 149      28.404  41.529  36.797  1.00 19.57
ATOM    720  CD  PRO A 149      27.542  41.061  35.628  1.00 17.55
ATOM    721  N   HIS A 150      29.930  42.733  33.041  1.00 23.43
ATOM    722  CA  HIS A 150      30.748  43.119  31.869  1.00 23.84
ATOM    723  C   HIS A 150      29.933  43.067  30.588  1.00 24.47
ATOM    724  O   HIS A 150      30.334  42.431  29.566  1.00 25.89
ATOM    725  CB  HIS A 150      31.968  42.211  31.765  1.00 23.54
ATOM    726  CG  HIS A 150      32.880  42.313  32.945  1.00 26.15
ATOM    727  ND1 HIS A 150      33.619  43.446  33.216  1.00 27.28
ATOM    728  CD2 HIS A 150      33.149  41.439  33.943  1.00 26.32
ATOM    729  CE1 HIS A 150      34.305  43.264  34.330  1.00 27.48
ATOM    730  NE2 HIS A 150      34.038  42.055  34.791  1.00 28.01
ATOM    731  N   GLY A 151      28.785  43.727  30.630  1.00 25.49
ATOM    732  CA  GLY A 151      27.906  43.784  29.485  1.00 26.41
ATOM    733  C   GLY A 151      27.325  45.179  29.468  1.00 27.16
ATOM    734  O   GLY A 151      27.981  46.136  29.983  1.00 26.97
ATOM    735  N   PRO A 152      26.125  45.370  28.903  1.00 28.12
ATOM    736  CA  PRO A 152      25.540  46.712  28.880  1.00 28.75
ATOM    737  C   PRO A 152      25.219  47.165  30.304  1.00 30.53
ATOM    738  O   PRO A 152      24.844  46.331  31.182  1.00 28.62
ATOM    739  CB  PRO A 152      24.294  46.528  28.017  1.00 29.49
ATOM    740  CG  PRO A 152      23.897  45.105  28.303  1.00 29.85
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FIG. 1L

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ATOM    741  CD  PRO A 152      25.227  44.385  28.277  1.00 28.15
ATOM    742  N   ASN A 153      25.375  48.457  30.560  1.00 33.03
ATOM    743  CA  ASN A 153      25.111  49.016  31.902  1.00 34.39
ATOM    744  C   ASN A 153      23.604  49.096  32.144  1.00 33.81
ATOM    745  O   ASN A 153      23.009  50.218  32.222  1.00 33.63
ATOM    746  CB  ASN A 153      25.755  50.401  32.009  1.00 37.16
ATOM    747  CG  ASN A 153      25.680  50.978  33.406  1.00 38.88
ATOM    748  OD1 ASN A 153      25.974  50.272  34.416  1.00 40.17
ATOM    749  ND2 ASN A 153      25.309  52.251  33.504  1.00 39.91
ATOM    750  N   VAL A 154      22.971  47.934  32.265  1.00 31.55
ATOM    751  CA  VAL A 154      21.514  47.872  32.486  1.00 29.59
ATOM    752  C   VAL A 154      21.113  46.739  33.418  1.00 29.47
ATOM    753  O   VAL A 154      21.924  45.809  33.718  1.00 30.24
ATOM    754  CB  VAL A 154      20.755  47.681  31.154  1.00 29.95
ATOM    755  CG1 VAL A 154      20.990  48.875  30.242  1.00 29.70
ATOM    756  CG2 VAL A 154      21.216  46.397  30.474  1.00 28.94
ATOM    757  N   THR A 155      19.874  46.799  33.882  1.00 27.83
ATOM    758  CA  THR A 155      19.323  45.773  34.779  1.00 27.61
ATOM    759  C   THR A 155      17.918  45.472  34.296  1.00 26.01
ATOM    760  O   THR A 155      17.114  46.413  34.041  1.00 27.70
ATOM    761  CB  THR A 155      19.268  46.280  36.229  1.00 27.24
ATOM    762  OG1 THR A 155      20.603  46.486  36.703  1.00 29.54
ATOM    763  CG2 THR A 155      18.573  45.270  37.129  1.00 27.37
ATOM    764  N   VAL A 156      17.592  44.197  34.143  1.00 24.69
ATOM    765  CA  VAL A 156      16.241  43.847  33.672  1.00 24.32
ATOM    766  C   VAL A 156      15.631  42.736  34.504  1.00 23.23
ATOM    767  O   VAL A 156      16.364  41.920  35.154  1.00 23.57
ATOM    768  CB  VAL A 156      16.253  43.402  32.184  1.00 25.34
ATOM    769  CG1 VAL A 156      17.178  44.302  31.379  1.00 26.63
ATOM    770  CG2 VAL A 156      16.684  41.960  32.063  1.00 24.89
ATOM    771  N   ARG A 157      14.306  42.687  34.521  1.00 21.44
ATOM    772  CA  ARG A 157      13.613  41.626  35.262  1.00 20.90
ATOM    773  C   ARG A 157      13.374  40.560  34.215  1.00 20.13
ATOM    774  O   ARG A 157      12.746  40.836  33.152  1.00 19.99
ATOM    775  CB  ARG A 157      12.280  42.121  35.830  1.00 20.03
ATOM    776  CG  ARG A 157      11.528  41.053  36.621  1.00 18.95
ATOM    777  CD  ARG A 157      10.271  41.616  37.260  1.00 18.99
ATOM    778  NE  ARG A 157      10.554  42.408  38.456  1.00 18.47
ATOM    779  CZ  ARG A 157      10.973  41.902  39.613  1.00 19.19
ATOM    780  NH1 ARG A 157      11.167  40.596  39.747  1.00 18.30
ATOM    781  NH2 ARG A 157      11.178  42.703  40.650  1.00 15.82
ATOM    782  N   ALA A 158      13.878  39.359  34.463  1.00 20.27
ATOM    783  CA  ALA A 158      13.713  38.266  33.496  1.00 19.08
ATOM    784  C   ALA A 158      13.279  36.986  34.175  1.00 19.45
ATOM    785  O   ALA A 158      13.379  36.845  35.432  1.00 19.64
ATOM    786  CB  ALA A 158      15.017  38.031  32.756  1.00 18.56
ATOM    787  N   ASN A 159      12.792  36.053  33.370  1.00 18.08
ATOM    788  CA  ASN A 159      12.363  34.756  33.876  1.00 18.21
ATOM    789  C   ASN A 159      13.607  33.992  34.282  1.00 18.60
ATOM    790  O   ASN A 159      14.666  34.033  33.577  1.00 19.42
ATOM    791  CB  ASN A 159      11.601  33.992  32.797  1.00 16.91
ATOM    792  CG  ASN A 159      10.282  34.647  32.459  1.00 18.46
ATOM    793  OD1 ASN A 159       9.479  34.978  33.381  1.00 19.46
ATOM    794  ND2 ASN A 159      10.020  34.848  31.174  1.00 16.51
ATOM    795  N   ILE A 160      13.518  33.311  35.412  1.00 18.73
ATOM    796  CA  ILE A 160      14.643  32.529  35.916  1.00 17.64
ATOM    797  C   ILE A 160      14.112  31.191  36.373  1.00 19.09
ATOM    798  O   ILE A 160      13.122  31.125  37.176  1.00 18.38
ATOM    799  CB  ILE A 160      15.319  33.212  37.128  1.00 18.36
ATOM    800  CG1 ILE A 160      15.764  34.629  36.758  1.00 17.90
ATOM    801  CG2 ILE A 160      16.521  32.394  37.585  1.00 17.16
ATOM    802  CD1 ILE A 160      16.521  35.336  37.875  1.00 18.56
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FIG. 1M

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ATOM    803  N   ALA A 161      14.717  30.123  35.871  1.00 17.55
ATOM    804  CA  ALA A 161      14.314  28.778  36.275  1.00 18.11
ATOM    805  C   ALA A 161      15.267  28.394  37.399  1.00 18.26
ATOM    806  O   ALA A 161      16.507  28.223  37.166  1.00 17.61
ATOM    807  CB  ALA A 161      14.447  27.805  35.105  1.00 17.28
ATOM    808  N   ALA A 162      14.737  28.283  38.614  1.00 17.99
ATOM    809  CA  ALA A 162      15.567  27.901  39.775  1.00 18.02
ATOM    810  C   ALA A 162      15.746  26.382  39.774  1.00 18.52
ATOM    811  O   ALA A 162      14.835  25.619  40.207  1.00 18.43
ATOM    812  CB  ALA A 162      14.897  28.359  41.067  1.00 17.36
ATOM    813  N   ILE A 163      16.900  25.928  39.300  1.00 19.89
ATOM    814  CA  ILE A 163      17.204  24.480  39.215  1.00 18.56
ATOM    815  C   ILE A 163      17.314  23.802  40.577  1.00 20.34
ATOM    816  O   ILE A 163      18.238  24.122  41.402  1.00 19.83
ATOM    817  CB  ILE A 163      18.512  24.245  38.430  1.00 17.19
ATOM    818  CG1 ILE A 163      18.347  24.753  36.994  1.00 16.02
ATOM    819  CG2 ILE A 163      18.874  22.761  38.445  1.00 14.93
ATOM    820  CD1 ILE A 163      19.628  24.735  36.174  1.00 16.24
ATOM    821  N   THR A 164      16.409  22.860  40.826  1.00 20.42
ATOM    822  CA  THR A 164      16.379  22.122  42.112  1.00 23.01
ATOM    823  C   THR A 164      16.817  20.665  41.958  1.00 24.30
ATOM    824  O   THR A 164      17.119  19.966  42.973  1.00 26.25
ATOM    825  CB  THR A 164      14.966  22.173  42.735  1.00 22.01
ATOM    826  OG1 THR A 164      13.990  21.799  41.754  1.00 22.15
ATOM    827  CG2 THR A 164      14.656  23.584  43.214  1.00 22.73
ATOM    828  N   GLU A 165      16.858  20.187  40.721  1.00 25.84
ATOM    829  CA  GLU A 165      17.281  18.804  40.444  1.00 27.82
ATOM    830  C   GLU A 165      17.800  18.693  39.024  1.00 26.80
ATOM    831  O   GLU A 165      17.246  19.323  38.072  1.00 26.59
ATOM    832  CB  GLU A 165      16.121  17.834  40.678  1.00 31.67
ATOM    833  CG  GLU A 165      16.233  17.118  42.020  1.00 38.94
ATOM    834  CD  GLU A 165      14.913  16.568  42.519  1.00 41.54
ATOM    835  OE1 GLU A 165      14.282  15.765  41.796  1.00 44.35
ATOM    836  OE2 GLU A 165      14.510  16.940  43.644  1.00 43.84
ATOM    837  N   SER A 166      18.861  17.919  38.852  1.00 24.81
ATOM    838  CA  SER A 166      19.455  17.765  37.525  1.00 25.32
ATOM    839  C   SER A 166      20.213  16.459  37.397  1.00 25.44
ATOM    840  O   SER A 166      20.551  15.795  38.427  1.00 24.00
ATOM    841  CB  SER A 166      20.405  18.928  37.255  1.00 23.13
ATOM    842  OG  SER A 166      21.444  18.939  38.217  1.00 21.22
ATOM    843  N   ASP A 167      20.490  16.079  36.155  1.00 26.01
ATOM    844  CA  ASP A 167      21.227  14.842  35.871  1.00 26.62
ATOM    845  C   ASP A 167      22.138  15.038  34.671  1.00 25.62
ATOM    846  O   ASP A 167      21.656  15.300  33.528  1.00 24.35
ATOM    847  CB  ASP A 167      20.253  13.691  35.601  1.00 30.53
ATOM    848  CG  ASP A 167      20.966  12.370  35.387  1.00 32.67
ATOM    849  OD1 ASP A 167      21.912  12.083  36.152  1.00 36.14
ATOM    850  OD2 ASP A 167      20.586  11.615  34.469  1.00 34.63
ATOM    851  N   LYS A 168      23.440  14.930  34.910  1.00 25.32
ATOM    852  CA  LYS A 168      24.461  15.078  33.847  1.00 25.94
ATOM    853  C   LYS A 168      24.416  16.445  33.175  1.00 25.49
ATOM    854  O   LYS A 168      24.742  16.580  31.955  1.00 25.50
ATOM    855  CB  LYS A 168      24.282  13.979  32.800  1.00 27.68
ATOM    856  CG  LYS A 168      24.408  12.570  33.362  1.00 30.33
ATOM    857  CD  LYS A 168      24.117  11.532  32.292  1.00 32.36
ATOM    858  CE  LYS A 168      24.205  10.126  32.855  1.00 34.37
ATOM    859  NZ  LYS A 168      23.889   9.101  31.821  1.00 36.50
ATOM    860  N   PHE A 169      24.024  17.460  33.937  1.00 22.87
ATOM    861  CA  PHE A 169      23.942  18.835  33.418  1.00 20.96
ATOM    862  C   PHE A 169      25.158  19.616  33.897  1.00 22.06
ATOM    863  O   PHE A 169      25.983  20.119  33.069  1.00 20.71
ATOM    864  CB  PHE A 169      22.668  19.506  33.919  1.00 19.76
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FIG. 1N

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ATOM    865  CG  PHE A 169      22.526  20.931  33.479  1.00 18.95
ATOM    866  CD1 PHE A 169      22.400  21.248  32.130  1.00 18.27
ATOM    867  CD2 PHE A 169      22.525  21.963  34.416  1.00 18.36
ATOM    868  CE1 PHE A 169      22.275  22.571  31.720  1.00 16.94
ATOM    869  CE2 PHE A 169      22.401  23.287  34.013  1.00 17.25
ATOM    870  CZ  PHE A 169      22.275  23.590  32.661  1.00 16.89
ATOM    871  N   PHE A 170      25.292  19.738  35.212  1.00 20.46
ATOM    872  CA  PHE A 170      26.438  20.452  35.788  1.00 21.45
ATOM    873  C   PHE A 170      27.702  19.620  35.574  1.00 22.40
ATOM    874  O   PHE A 170      27.675  18.355  35.665  1.00 22.55
ATOM    875  CB  PHE A 170      26.205  20.705  37.281  1.00 19.44
ATOM    876  CG  PHE A 170      25.079  21.663  37.559  1.00 18.44
ATOM    877  CD1 PHE A 170      23.988  21.276  38.330  1.00 18.45
ATOM    878  CD2 PHE A 170      25.098  22.948  37.025  1.00 16.73
ATOM    879  CE1 PHE A 170      22.932  22.154  38.563  1.00 17.50
ATOM    880  CE2 PHE A 170      24.046  23.832  37.253  1.00 17.78
ATOM    881  CZ  PHE A 170      22.963  23.432  38.023  1.00 16.39
ATOM    882  N   ILE A 171      28.805  20.297  35.272  1.00 23.10
ATOM    883  CA  ILE A 171      30.095  19.615  35.043  1.00 22.87
ATOM    884  C   ILE A 171      31.057  19.962  36.163  1.00 24.02
ATOM    885  O   ILE A 171      31.222  21.162  36.537  1.00 22.48
ATOM    886  CB  ILE A 171      30.729  20.048  33.704  1.00 24.70
ATOM    887  CG1 ILE A 171      29.823  19.632  32.544  1.00 22.57
ATOM    888  CG2 ILE A 171      32.123  19.434  33.558  1.00 22.35
ATOM    889  CD1 ILE A 171      30.319  20.100  31.192  1.00 23.46
ATOM    890  N   ASN A 172      31.702  18.942  36.709  1.00 27.12
ATOM    891  CA  ASN A 172      32.657  19.143  37.809  1.00 30.01
ATOM    892  C   ASN A 172      33.864  19.975  37.359  1.00 29.57
ATOM    893  O   ASN A 172      34.616  19.574  36.418  1.00 29.20
ATOM    894  CB  ASN A 172      33.105  17.779  38.337  1.00 31.92
ATOM    895  CG  ASN A 172      33.913  17.885  39.608  1.00 34.74
ATOM    896  OD1 ASN A 172      33.615  18.737  40.504  1.00 36.04
ATOM    897  ND2 ASN A 172      34.927  17.034  39.734  1.00 36.14
ATOM    898  N   GLY A 173      34.049  21.132  37.991  1.00 28.24
ATOM    899  CA  GLY A 173      35.166  22.001  37.659  1.00 27.99
ATOM    900  C   GLY A 173      34.973  22.938  36.476  1.00 28.87
ATOM    901  O   GLY A 173      35.944  23.644  36.063  1.00 29.20
ATOM    902  N   SER A 174      33.769  22.988  35.914  1.00 28.95
ATOM    903  CA  SER A 174      33.498  23.880  34.748  1.00 29.13
ATOM    904  C   SER A 174      33.524  25.348  35.168  1.00 27.92
ATOM    905  O   SER A 174      33.878  26.255  34.354  1.00 29.51
ATOM    906  CB  SER A 174      32.130  23.562  34.148  1.00 28.90
ATOM    907  OG  SER A 174      31.102  23.922  35.054  1.00 30.49
ATOM    908  N   ASN A 175      33.140  25.593  36.416  1.00 25.45
ATOM    909  CA  ASN A 175      33.095  26.951  37.011  1.00 23.59
ATOM    910  C   ASN A 175      31.855  27.767  36.647  1.00 21.71
ATOM    911  O   ASN A 175      31.828  29.019  36.853  1.00 20.11
ATOM    912  CB  ASN A 175      34.354  27.754  36.662  1.00 27.01
ATOM    913  CG  ASN A 175      34.548  28.950  37.582  1.00 29.09
ATOM    914  OD1 ASN A 175      34.648  28.794  38.840  1.00 30.19
ATOM    915  ND2 ASN A 175      34.600  30.144  37.004  1.00 30.01
ATOM    916  N   TRP A 176      30.841  27.121  36.078  1.00 16.70
ATOM    917  CA  TRP A 176      29.590  27.847  35.790  1.00 18.41
ATOM    918  C   TRP A 176      28.482  27.170  36.580  1.00 17.87
ATOM    919  O   TRP A 176      28.534  25.927  36.838  1.00 15.45
ATOM    920  CB  TRP A 176      29.248  27.888  34.292  1.00 16.48
ATOM    921  CG  TRP A 176      29.257  26.588  33.563  1.00 17.63
ATOM    922  CD1 TRP A 176      30.291  26.063  32.842  1.00 17.33
ATOM    923  CD2 TRP A 176      28.165  25.668  33.425  1.00 17.78
ATOM    924  NE1 TRP A 176      29.911  24.881  32.258  1.00 16.01
ATOM    925  CE2 TRP A 176      28.612  24.613  32.599  1.00 16.95
ATOM    926  CE3 TRP A 176      26.852  25.635  33.918  1.00 18.29
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FIG. 10

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ATOM    927  CZ2 TRP A 176      27.794  23.532  32.252  1.00 17.40
ATOM    928  CZ3 TRP A 176      26.034  24.557  33.573  1.00 19.02
ATOM    929  CH2 TRP A 176      26.512  23.521  32.747  1.00 19.06
ATOM    930  N   GLU A 177      27.496  27.950  37.005  1.00 18.68
ATOM    931  CA  GLU A 177      26.387  27.385  37.797  1.00 21.01
ATOM    932  C   GLU A 177      25.024  27.700  37.224  1.00 20.81
ATOM    933  O   GLU A 177      23.977  27.582  37.938  1.00 21.08
ATOM    934  CB  GLU A 177      26.461  27.869  39.250  1.00 22.84
ATOM    935  CG  GLU A 177      26.865  29.322  39.443  1.00 26.63
ATOM    936  CD  GLU A 177      28.377  29.531  39.446  1.00 27.90
ATOM    937  OE1 GLU A 177      29.121  28.568  39.726  1.00 28.44
ATOM    938  OE2 GLU A 177      28.818  30.670  39.186  1.00 28.24
ATOM    939  N   GLY A 178      25.007  28.088  35.953  1.00 18.48
ATOM    940  CA  GLY A 178      23.759  28.411  35.295  1.00 16.82
ATOM    941  C   GLY A 178      23.929  28.406  33.791  1.00 15.90
ATOM    942  O   GLY A 178      25.070  28.248  33.264  1.00 15.75
ATOM    943  N   ILE A 179      22.831  28.589  33.076  1.00 14.53
ATOM    944  CA  ILE A 179      22.882  28.588  31.610  1.00 14.26
ATOM    945  C   ILE A 179      22.007  29.701  31.057  1.00 14.53
ATOM    946  O   ILE A 179      20.896  29.980  31.603  1.00 15.23
ATOM    947  CB  ILE A 179      22.428  27.217  31.069  1.00 14.45
ATOM    948  CG1 ILE A 179      22.535  27.183  29.548  1.00 14.28
ATOM    949  CG2 ILE A 179      21.002  26.921  31.525  1.00 13.41
ATOM    950  CD1 ILE A 179      22.359  25.788  28.974  1.00 13.85
ATOM    951  N   LEU A 180      22.489  30.350  29.998  1.00 14.91
ATOM    952  CA  LEU A 180      21.763  31.464  29.353  1.00 14.24
ATOM    953  C   LEU A 180      21.311  31.050  27.961  1.00 15.19
ATOM    954  O   LEU A 180      22.117  31.115  26.973  1.00 15.79
ATOM    955  CB  LEU A 180      22.675  32.690  29.223  1.00 14.83
ATOM    956  CG  LEU A 180      22.078  34.107  29.257  1.00 16.59
ATOM    957  CD1 LEU A 180      22.902  34.996  28.351  1.00 15.04
ATOM    958  CD2 LEU A 180      20.622  34.120  28.818  1.00 17.08
ATOM    959  N   GLY A 181      20.057  30.621  27.851  1.00 15.40
ATOM    960  CA  GLY A 181      19.525  30.227  26.561  1.00 13.68
ATOM    961  C   GLY A 181      19.276  31.481  25.741  1.00 15.03
ATOM    962  O   GLY A 181      18.402  32.330  26.107  1.00 14.58
ATOM    963  N   LEU A 182      20.002  31.629  24.638  1.00 12.84
ATOM    964  CA  LEU A 182      19.859  32.831  23.787  1.00 13.53
ATOM    965  C   LEU A 182      19.029  32.646  22.521  1.00 14.25
ATOM    966  O   LEU A 182      18.883  33.607  21.701  1.00 13.52
ATOM    967  CB  LEU A 182      21.250  33.352  23.418  1.00 13.44
ATOM    968  CG  LEU A 182      22.036  33.949  24.583  1.00 11.84
ATOM    969  CD1 LEU A 182      23.506  34.067  24.211  1.00 11.17
ATOM    970  CD2 LEU A 182      21.450  35.311  24.936  1.00 12.14
ATOM    971  N   ALA A 183      18.491  31.449  22.322  1.00 15.12
ATOM    972  CA  ALA A 183      17.660  31.183  21.131  1.00 15.16
ATOM    973  C   ALA A 183      16.276  31.788  21.361  1.00 17.66
ATOM    974  O   ALA A 183      16.053  32.526  22.377  1.00 16.26
ATOM    975  CB  ALA A 183      17.557  29.684  20.875  1.00 14.23
ATOM    976  N   TYR A 184      15.338  31.487  20.466  1.00 18.41
ATOM    977  CA  TYR A 184      13.976  32.060  20.550  1.00 17.40
ATOM    978  C   TYR A 184      12.953  31.334  21.424  1.00 18.41
ATOM    979  O   TYR A 184      13.131  30.135  21.807  1.00 14.95
ATOM    980  CB  TYR A 184      13.411  32.237  19.138  1.00 18.07
ATOM    981  CG  TYR A 184      14.327  33.017  18.216  1.00 19.50
ATOM    982  CD1 TYR A 184      15.295  32.367  17.446  1.00 19.23
ATOM    983  CD2 TYR A 184      14.233  34.408  18.119  1.00 19.65
ATOM    984  CE1 TYR A 184      16.144  33.083  16.599  1.00 19.22
ATOM    985  CE2 TYR A 184      15.079  35.134  17.279  1.00 19.50
ATOM    986  CZ  TYR A 184      16.027  34.466  16.521  1.00 19.86
ATOM    987  OH  TYR A 184      16.842  35.185  15.670  1.00 20.69
ATOM    988  N   ALA A 185      11.873  32.046  21.734  1.00 16.29
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FIG. 1P

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ATOM    989  CA  ALA A 185      10.784  31.519  22.592  1.00 17.90
ATOM    990  C   ALA A 185      10.185  30.221  22.068  1.00 17.38
ATOM    991  O   ALA A 185       9.682  29.372  22.869  1.00 15.41
ATOM    992  CB  ALA A 185       9.690  32.579  22.742  1.00 15.99
ATOM    993  N   GLU A 186      10.232  30.046  20.751  1.00 20.56
ATOM    994  CA  GLU A 186       9.679  28.846  20.086  1.00 23.43
ATOM    995  C   GLU A 186      10.169  27.533  20.690  1.00 23.87
ATOM    996  O   GLU A 186       9.448  26.486  20.619  1.00 24.67
ATOM    997  CB  GLU A 186      10.009  28.887  18.591  1.00 27.60
ATOM    998  CG  GLU A 186       9.447  27.729  17.786  1.00 32.42
ATOM    999  CD  GLU A 186       7.941  27.593  17.923  1.00 36.08
ATOM   1000  OE1 GLU A 186       7.255  28.633  18.041  1.00 39.03
ATOM   1001  OE2 GLU A 186       7.439  26.448  17.900  1.00 37.05
ATOM   1002  N   ILE A 187      11.363  27.540  21.283  1.00 22.31
ATOM   1003  CA  ILE A 187      11.904  26.302  21.900  1.00 19.35
ATOM   1004  C   ILE A 187      12.113  26.441  23.403  1.00 20.13
ATOM   1005  O   ILE A 187      12.887  25.654  24.034  1.00 19.35
ATOM   1006  CB  ILE A 187      13.241  25.872  21.248  1.00 19.03
ATOM   1007  CG1 ILE A 187      14.270  26.998  21.355  1.00 18.36
ATOM   1008  CG2 ILE A 187      13.008  25.488  19.795  1.00 19.03
ATOM   1009  CD1 ILE A 187      15.627  26.635  20.780  1.00 17.45
ATOM   1010  N   ALA A 188      11.441  27.416  23.999  1.00 19.82
ATOM   1011  CA  ALA A 188      11.551  27.636  25.454  1.00 20.35
ATOM   1012  C   ALA A 188      10.622  26.661  26.171  1.00 19.60
ATOM   1013  O   ALA A 188       9.554  26.277  25.618  1.00 19.52
ATOM   1014  CB  ALA A 188      11.160  29.083  25.793  1.00 17.16
ATOM   1015  N   ARG A 189      11.004  26.231  27.372  1.00 20.77
ATOM   1016  CA  ARG A 189      10.142  25.324  28.164  1.00 21.43
ATOM   1017  C   ARG A 189       9.577  26.162  29.303  1.00 22.80
ATOM   1018  O   ARG A 189      10.274  27.099  29.817  1.00 23.68
ATOM   1019  CB  ARG A 189      10.949  24.151  28.753  1.00 22.36
ATOM   1020  CG  ARG A 189      11.689  23.285  27.729  1.00 23.90
ATOM   1021  CD  ARG A 189      10.765  22.818  26.624  1.00 24.33
ATOM   1022  NE  ARG A 189      11.419  21.914  25.681  1.00 25.35
ATOM   1023  CZ  ARG A 189      11.336  20.586  25.724  1.00 27.35
ATOM   1024  NH1 ARG A 189      10.620  19.991  26.673  1.00 24.73
ATOM   1025  NH2 ARG A 189      11.959  19.849  24.807  1.00 25.42
ATOM   1026  N   PRO A 190       8.325  25.890  29.725  1.00 23.27
ATOM   1027  CA  PRO A 190       7.442  24.830  29.216  1.00 23.21
ATOM   1028  C   PRO A 190       6.826  25.110  27.849  1.00 23.72
ATOM   1029  O   PRO A 190       6.458  24.157  27.101  1.00 23.77
ATOM   1030  CB  PRO A 190       6.377  24.713  30.305  1.00 22.63
ATOM   1031  CG  PRO A 190       6.285  26.115  30.830  1.00 24.33
ATOM   1032  CD  PRO A 190       7.745  26.527  30.921  1.00 22.73
ATOM   1033  N   ASP A 191       6.681  26.383  27.508  1.00 25.20
ATOM   1034  CA  ASP A 191       6.107  26.754  26.202  1.00 25.89
ATOM   1035  C   ASP A 191       6.653  28.106  25.770  1.00 25.76
ATOM   1036  O   ASP A 191       7.488  28.716  26.498  1.00 24.40
ATOM   1037  CB  ASP A 191       4.569  26.757  26.269  1.00 28.36
ATOM   1038  CG  ASP A 191       4.024  27.697  27.323  1.00 30.16
ATOM   1039  OD1 ASP A 191       2.887  27.468  27.783  1.00 33.88
ATOM   1040  OD2 ASP A 191       4.714  28.669  27.686  1.00 30.53
ATOM   1041  N   ASP A 192       6.214  28.596  24.617  1.00 26.01
ATOM   1042  CA  ASP A 192       6.724  29.877  24.088  1.00 26.22
ATOM   1043  C   ASP A 192       6.236  31.123  24.813  1.00 26.52
ATOM   1044  O   ASP A 192       6.567  32.275  24.395  1.00 26.27
ATOM   1045  CB  ASP A 192       6.419  29.985  22.589  1.00 27.69
ATOM   1046  CG  ASP A 192       4.940  30.161  22.296  1.00 29.61
ATOM   1047  OD1 ASP A 192       4.102  29.647  23.066  1.00 31.87
ATOM   1048  OD2 ASP A 192       4.618  30.805  21.279  1.00 30.31
ATOM   1049  N   SER A 193       5.470  30.947  25.885  1.00 24.46
ATOM   1050  CA  SER A 193       4.988  32.117  26.645  1.00 24.21
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FIG. 1Q

ATOM	1051	C	SER	A	193	6.078	32.565	27.614	1.00 22.68
ATOM	1052	O	SER	A	193	6.082	33.740	28.082	1.00 22.41
ATOM	1053	CB	SER	A	193	3.701	31.787	27.415	1.00 25.67
ATOM	1054	OG	SER	A	193	3.910	30.774	28.386	1.00 27.13
ATOM	1055	N	LEU	A	194	7.009	31.670	27.932	1.00 20.84
ATOM	1056	CA	LEU	A	194	8.107	32.044	28.852	1.00 18.87
ATOM	1057	C	LEU	A	194	9.149	32.830	28.065	1.00 18.82
ATOM	1058	O	LEU	A	194	10.066	32.240	27.419	1.00 19.19
ATOM	1059	CB	LEU	A	194	8.758	30.809	29.469	1.00 17.48
ATOM	1060	CG	LEU	A	194	9.680	31.201	30.631	1.00 19.18
ATOM	1061	CD1	LEU	A	194	8.825	31.633	31.825	1.00 16.80
ATOM	1062	CD2	LEU	A	194	10.585	30.044	31.014	1.00 16.32
ATOM	1063	N	GLU	A	195	9.025	34.150	28.095	1.00 18.44
ATOM	1064	CA	GLU	A	195	9.949	35.029	27.369	1.00 18.80
ATOM	1065	C	GLU	A	195	11.415	34.777	27.733	1.00 19.02
ATOM	1066	O	GLU	A	195	11.791	34.754	28.953	1.00 17.72
ATOM	1067	CB	GLU	A	195	9.575	36.485	27.644	1.00 20.83
ATOM	1068	CG	GLU	A	195	10.514	37.512	27.047	1.00 23.03
ATOM	1069	CD	GLU	A	195	9.989	38.926	27.204	1.00 24.10
ATOM	1070	OE1	GLU	A	195	9.211	39.373	26.337	1.00 25.77
ATOM	1071	OE2	GLU	A	195	10.343	39.585	28.203	1.00 24.06
ATOM	1072	N	PRO	A	196	12.272	34.559	26.714	1.00 18.43
ATOM	1073	CA	PRO	A	196	13.702	34.311	26.935	1.00 18.17
ATOM	1074	C	PRO	A	196	14.385	35.571	27.447	1.00 16.90
ATOM	1075	O	PRO	A	196	13.845	36.715	27.297	1.00 17.67
ATOM	1076	CB	PRO	A	196	14.210	33.914	25.546	1.00 17.79
ATOM	1077	CG	PRO	A	196	12.992	33.305	24.892	1.00 19.11
ATOM	1078	CD	PRO	A	196	11.911	34.287	25.310	1.00 18.58
ATOM	1079	N	PHE	A	197	15.558	35.405	28.039	1.00 15.80
ATOM	1080	CA	PHE	A	197	16.290	36.550	28.574	1.00 14.47
ATOM	1081	C	PHE	A	197	16.597	37.663	27.576	1.00 16.31
ATOM	1082	O	PHE	A	197	16.392	38.873	27.894	1.00 14.87
ATOM	1083	CB	PHE	A	197	17.595	36.093	29.217	1.00 12.99
ATOM	1084	CG	PHE	A	197	18.472	37.227	29.652	1.00 13.09
ATOM	1085	CD1	PHE	A	197	19.376	37.806	28.767	1.00 12.33
ATOM	1086	CD2	PHE	A	197	18.347	37.766	30.926	1.00 14.29
ATOM	1087	CE1	PHE	A	197	20.139	38.907	29.143	1.00 12.22
ATOM	1088	CE2	PHE	A	197	19.108	38.873	31.310	1.00 14.64
ATOM	1089	CZ	PHE	A	197	20.002	39.441	30.415	1.00 13.26
ATOM	1090	N	PHE	A	198	17.089	37.319	26.390	1.00 16.71
ATOM	1091	CA	PHE	A	198	17.427	38.384	25.431	1.00 17.60
ATOM	1092	C	PHE	A	198	16.212	39.192	25.001	1.00 17.52
ATOM	1093	O	PHE	A	198	16.317	40.434	24.774	1.00 16.03
ATOM	1094	CB	PHE	A	198	18.133	37.829	24.196	1.00 17.77
ATOM	1095	CG	PHE	A	198	19.051	38.826	23.549	1.00 17.92
ATOM	1096	CD1	PHE	A	198	20.310	39.075	24.087	1.00 18.66
ATOM	1097	CD2	PHE	A	198	18.633	39.569	22.455	1.00 16.90
ATOM	1098	CE1	PHE	A	198	21.139	40.053	23.546	1.00 18.55
ATOM	1099	CE2	PHE	A	198	19.454	40.551	21.904	1.00 17.96
ATOM	1100	CZ	PHE	A	198	20.708	40.795	22.451	1.00 18.52
ATOM	1101	N	ASP	A	199	15.066	38.530	24.879	1.00 17.52
ATOM	1102	CA	ASP	A	199	13.819	39.225	24.491	1.00 19.54
ATOM	1103	C	ASP	A	199	13.464	40.261	25.561	1.00 18.83
ATOM	1104	O	ASP	A	199	13.134	41.444	25.233	1.00 20.48
ATOM	1105	CB	ASP	A	199	12.685	38.210	24.338	1.00 21.95
ATOM	1106	CG	ASP	A	199	12.868	37.312	23.126	1.00 24.77
ATOM	1107	OD1	ASP	A	199	12.408	37.687	22.028	1.00 27.27
ATOM	1108	OD2	ASP	A	199	13.481	36.234	23.261	1.00 27.11
ATOM	1109	N	SER	A	200	13.530	39.858	26.829	1.00 17.89
ATOM	1110	CA	SER	A	200	13.223	40.784	27.947	1.00 16.17
ATOM	1111	C	SER	A	200	14.211	41.943	27.915	1.00 16.77
ATOM	1112	O	SER	A	200	13.823	43.140	28.072	1.00 17.20

FIG. 1R

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ATOM   1113  CB  SER A 200      13.336  40.062  29.292  1.00 14.55
ATOM   1114  OG  SER A 200      12.386  39.017  29.400  1.00 14.16
ATOM   1115  N   LEU A 201      15.481  41.617  27.711  1.00 16.47
ATOM   1116  CA  LEU A 201      16.553  42.638  27.654  1.00 18.93
ATOM   1117  C   LEU A 201      16.237  43.684  26.586  1.00 18.88
ATOM   1118  O   LEU A 201      16.274  44.917  26.852  1.00 18.26
ATOM   1119  CB  LEU A 201      17.884  41.953  27.337  1.00 18.68
ATOM   1120  CG  LEU A 201      19.244  42.637  27.523  1.00 20.59
ATOM   1121  CD1 LEU A 201      19.973  42.616  26.194  1.00 20.98
ATOM   1122  CD2 LEU A 201      19.100  44.053  28.045  1.00 20.13
ATOM   1123  N   VAL A 202      15.919  43.222  25.383  1.00 20.38
ATOM   1124  CA  VAL A 202      15.600  44.130  24.264  1.00 20.23
ATOM   1125  C   VAL A 202      14.335  44.938  24.532  1.00 23.13
ATOM   1126  O   VAL A 202      14.284  46.175  24.255  1.00 23.36
ATOM   1127  CB  VAL A 202      15.433  43.337  22.948  1.00 19.84
ATOM   1128  CG1 VAL A 202      14.830  44.228  21.855  1.00 17.60
ATOM   1129  CG2 VAL A 202      16.792  42.804  22.502  1.00 16.36
ATOM   1130  N   LYS A 203      13.315  44.285  25.074  1.00 24.15
ATOM   1131  CA  LYS A 203      12.050  44.985  25.360  1.00 27.77
ATOM   1132  C   LYS A 203      12.178  46.049  26.452  1.00 27.47
ATOM   1133  O   LYS A 203      11.753  47.223  26.252  1.00 26.63
ATOM   1134  CB  LYS A 203      10.970  43.973  25.746  1.00 29.55
ATOM   1135  CG  LYS A 203       9.609  44.594  26.008  1.00 34.08
ATOM   1136  CD  LYS A 203       8.497  43.798  25.335  1.00 36.82
ATOM   1137  CE  LYS A 203       8.504  42.342  25.774  1.00 38.97
ATOM   1138  NZ  LYS A 203       7.512  41.533  25.012  1.00 40.86
ATOM   1139  N   GLN A 204      12.771  45.687  27.585  1.00 26.46
ATOM   1140  CA  GLN A 204      12.910  46.632  28.721  1.00 26.94
ATOM   1141  C   GLN A 204      14.125  47.542  28.614  1.00 28.51
ATOM   1142  O   GLN A 204      14.479  48.264  29.600  1.00 30.36
ATOM   1143  CB  GLN A 204      13.007  45.848  30.032  1.00 24.17
ATOM   1144  CG  GLN A 204      11.980  44.739  30.170  1.00 20.78
ATOM   1145  CD  GLN A 204      12.270  43.821  31.342  1.00 20.14
ATOM   1146  OE1 GLN A 204      11.725  42.676  31.420  1.00 19.72
ATOM   1147  NE2 GLN A 204      13.107  44.279  32.265  1.00 16.56
ATOM   1148  N   THR A 205      14.762  47.568  27.453  1.00 28.58
ATOM   1149  CA  THR A 205      15.979  48.375  27.306  1.00 29.06
ATOM   1150  C   THR A 205      16.186  48.905  25.885  1.00 30.58
ATOM   1151  O   THR A 205      15.427  48.525  24.940  1.00 30.23
ATOM   1152  CB  THR A 205      17.175  47.501  27.772  1.00 29.85
ATOM   1153  OG1 THR A 205      17.572  47.899  29.088  1.00 29.62
ATOM   1154  CG2 THR A 205      18.328  47.576  26.823  1.00 29.03
ATOM   1155  N   HIS A 206      17.175  49.784  25.711  1.00 31.92
ATOM   1156  CA  HIS A 206      17.488  50.350  24.372  1.00 33.38
ATOM   1157  C   HIS A 206      18.548  49.530  23.637  1.00 32.31
ATOM   1158  O   HIS A 206      18.905  49.845  22.460  1.00 31.08
ATOM   1159  CB  HIS A 206      17.975  51.799  24.487  1.00 36.39
ATOM   1160  CG  HIS A 206      16.898  52.773  24.848  1.00 39.92
ATOM   1161  ND1 HIS A 206      15.696  52.836  24.177  1.00 40.95
ATOM   1162  CD2 HIS A 206      16.849  53.736  25.800  1.00 40.35
ATOM   1163  CE1 HIS A 206      14.951  53.794  24.699  1.00 41.58
ATOM   1164  NE2 HIS A 206      15.627  54.356  25.685  1.00 41.65
ATOM   1165  N   VAL A 207      19.075  48.501  24.291  1.00 29.55
ATOM   1166  CA  VAL A 207      20.097  47.639  23.651  1.00 28.49
ATOM   1167  C   VAL A 207      19.511  47.083  22.354  1.00 26.27
ATOM   1168  O   VAL A 207      18.415  46.441  22.358  1.00 26.26
ATOM   1169  CB  VAL A 207      20.498  46.462  24.572  1.00 28.77
ATOM   1170  CG1 VAL A 207      21.399  45.491  23.825  1.00 29.45
ATOM   1171  CG2 VAL A 207      21.219  46.987  25.805  1.00 28.52
ATOM   1172  N   PRO A 208      20.192  47.311  21.220  1.00 24.42
ATOM   1173  CA  PRO A 208      19.683  46.804  19.944  1.00 23.82
ATOM   1174  C   PRO A 208      19.547  45.284  19.914  1.00 22.81
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FIG. 1S

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ATOM   1175  O   PRO A 208      20.290  44.545  20.630  1.00 21.12
ATOM   1176  CB  PRO A 208      20.689  47.343  18.926  1.00 24.65
ATOM   1177  CG  PRO A 208      21.927  47.510  19.711  1.00 25.77
ATOM   1178  CD  PRO A 208      21.441  48.062  21.025  1.00 24.39
ATOM   1179  N   ASN A 209      18.605  44.806  19.109  1.00 21.59
ATOM   1180  CA  ASN A 209      18.322  43.362  18.995  1.00 20.43
ATOM   1181  C   ASN A 209      19.390  42.599  18.222  1.00 20.52
ATOM   1182  O   ASN A 209      19.190  42.217  17.026  1.00 21.39
ATOM   1183  CB  ASN A 209      16.957  43.159  18.340  1.00 18.52
ATOM   1184  CG  ASN A 209      16.501  41.728  18.402  1.00 18.12
ATOM   1185  OD1 ASN A 209      16.968  40.948  19.281  1.00 18.32
ATOM   1186  ND2 ASN A 209      15.594  41.348  17.513  1.00 15.63
ATOM   1187  N   LEU A 210      20.514  42.346  18.883  1.00 19.53
ATOM   1188  CA  LEU A 210      21.631  41.634  18.243  1.00 19.83
ATOM   1189  C   LEU A 210      22.765  41.421  19.226  1.00 19.02
ATOM   1190  O   LEU A 210      22.958  42.238  20.176  1.00 18.52
ATOM   1191  CB  LEU A 210      22.120  42.451  17.035  1.00 21.93
ATOM   1192  CG  LEU A 210      23.534  42.305  16.456  1.00 22.75
ATOM   1193  CD1 LEU A 210      23.612  43.009  15.102  1.00 23.20
ATOM   1194  CD2 LEU A 210      24.548  42.910  17.409  1.00 24.60
ATOM   1195  N   PHE A 211      23.509  40.334  19.044  1.00 16.48
ATOM   1196  CA  PHE A 211      24.671  40.055  19.909  1.00 16.70
ATOM   1197  C   PHE A 211      25.722  39.310  19.095  1.00 16.08
ATOM   1198  O   PHE A 211      25.392  38.653  18.063  1.00 17.22
ATOM   1199  CB  PHE A 211      24.251  39.280  21.173  1.00 14.67
ATOM   1200  CG  PHE A 211      23.813  37.863  20.924  1.00 16.01
ATOM   1201  CD1 PHE A 211      24.748  36.837  20.835  1.00 14.91
ATOM   1202  CD2 PHE A 211      22.465  37.546  20.824  1.00 14.62
ATOM   1203  CE1 PHE A 211      24.344  35.515  20.653  1.00 15.05
ATOM   1204  CE2 PHE A 211      22.054  36.224  20.641  1.00 15.47
ATOM   1205  CZ  PHE A 211      22.996  35.207  20.558  1.00 12.73
ATOM   1206  N   SER A 212      26.977  39.424  19.520  1.00 17.19
ATOM   1207  CA  SER A 212      28.126  38.803  18.818  1.00 16.98
ATOM   1208  C   SER A 212      28.894  37.862  19.725  1.00 16.10
ATOM   1209  O   SER A 212      29.036  38.122  20.955  1.00 14.22
ATOM   1210  CB  SER A 212      29.094  39.888  18.349  1.00 16.89
ATOM   1211  OG  SER A 212      28.431  40.869  17.593  1.00 26.70
ATOM   1212  N   LEU A 213      29.430  36.797  19.144  1.00 14.76
ATOM   1213  CA  LEU A 213      30.194  35.819  19.930  1.00 14.81
ATOM   1214  C   LEU A 213      31.563  35.509  19.352  1.00 14.32
ATOM   1215  O   LEU A 213      31.702  35.162  18.137  1.00 12.74
ATOM   1216  CB  LEU A 213      29.394  34.522  20.060  1.00 15.67
ATOM   1217  CG  LEU A 213      28.735  34.210  21.408  1.00 18.95
ATOM   1218  CD1 LEU A 213      28.196  35.475  22.050  1.00 18.65
ATOM   1219  CD2 LEU A 213      27.627  33.185  21.192  1.00 16.46
ATOM   1220  N   GLN A 214      32.581  35.656  20.191  1.00 14.19
ATOM   1221  CA  GLN A 214      33.954  35.324  19.797  1.00 15.89
ATOM   1222  C   GLN A 214      34.407  34.258  20.778  1.00 15.04
ATOM   1223  O   GLN A 214      34.848  34.582  21.917  1.00 16.01
ATOM   1224  CB  GLN A 214      34.903  36.523  19.914  1.00 17.92
ATOM   1225  CG  GLN A 214      36.290  36.231  19.341  1.00 20.63
ATOM   1226  CD  GLN A 214      37.397  37.099  19.932  1.00 23.22
ATOM   1227  OE1 GLN A 214      38.459  37.332  19.273  1.00 24.79
ATOM   1228  NE2 GLN A 214      37.199  37.571  21.156  1.00 24.53
ATOM   1229  N   LEU A 215      34.284  32.997  20.390  1.00 14.37
ATOM   1230  CA  LEU A 215      34.729  31.890  21.262  1.00 13.74
ATOM   1231  C   LEU A 215      36.193  31.625  20.925  1.00 14.40
ATOM   1232  O   LEU A 215      36.541  31.357  19.737  1.00 14.39
ATOM   1233  CB  LEU A 215      33.872  30.644  21.005  1.00 13.94
ATOM   1234  CG  LEU A 215      32.636  30.429  21.893  1.00 14.78
ATOM   1235  CD1 LEU A 215      31.900  31.734  22.143  1.00 13.31
ATOM   1236  CD2 LEU A 215      31.723  29.407  21.240  1.00 12.97
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FIG. 1T

ATOM	1237	N	CYS	A	216	37.066	31.706	21.922	1.00 14.83
ATOM	1238	CA	CYS	A	216	38.504	31.486	21.682	1.00 16.37
ATOM	1239	C	CYS	A	216	39.066	30.196	22.263	1.00 17.20
ATOM	1240	O	CYS	A	216	39.174	30.046	23.519	1.00 16.79
ATOM	1241	CB	CYS	A	216	39.314	32.668	22.227	1.00 19.03
ATOM	1242	SG	CYS	A	216	38.852	34.278	21.505	1.00 23.75
ATOM	1243	N	GLY	A	217	39.415	29.257	21.387	1.00 15.43
ATOM	1244	CA	GLY	A	217	40.018	28.021	21.843	1.00 16.40
ATOM	1245	C	GLY	A	217	41.483	28.371	22.064	1.00 17.87
ATOM	1246	O	GLY	A	217	42.057	29.204	21.303	1.00 17.53
ATOM	1247	N	ALA	A	218	42.119	27.785	23.069	1.00 17.79
ATOM	1248	CA	ALA	A	218	43.539	28.108	23.349	1.00 16.33
ATOM	1249	C	ALA	A	218	44.486	27.408	22.379	1.00 17.71
ATOM	1250	O	ALA	A	218	45.602	27.927	22.069	1.00 16.46
ATOM	1251	CB	ALA	A	218	43.884	27.731	24.779	1.00 14.95
ATOM	1252	N	GLY	A	219	44.073	26.245	21.890	1.00 16.19
ATOM	1253	CA	GLY	A	219	44.909	25.505	20.970	1.00 17.57
ATOM	1254	C	GLY	A	219	45.696	24.439	21.703	1.00 17.52
ATOM	1255	O	GLY	A	219	46.490	23.675	21.076	1.00 16.29
ATOM	1256	N	PHE	A	220	45.502	24.375	23.018	1.00 17.13
ATOM	1257	CA	PHE	A	220	46.190	23.381	23.873	1.00 18.29
ATOM	1258	C	PHE	A	220	45.381	23.185	25.153	1.00 19.24
ATOM	1259	O	PHE	A	220	44.477	24.012	25.475	1.00 19.69
ATOM	1260	CB	PHE	A	220	47.616	23.854	24.187	1.00 18.72
ATOM	1261	CG	PHE	A	220	47.689	25.253	24.731	1.00 20.07
ATOM	1262	CD1	PHE	A	220	47.448	25.507	26.077	1.00 20.91
ATOM	1263	CD2	PHE	A	220	47.984	26.320	23.890	1.00 19.91
ATOM	1264	CE1	PHE	A	220	47.505	26.809	26.576	1.00 21.79
ATOM	1265	CE2	PHE	A	220	48.043	27.620	24.374	1.00 20.35
ATOM	1266	CZ	PHE	A	220	47.802	27.866	25.721	1.00 21.77
ATOM	1267	N	PRO	A	221	45.659	22.110	25.907	1.00 20.17
ATOM	1268	CA	PRO	A	221	44.922	21.846	27.147	1.00 21.27
ATOM	1269	C	PRO	A	221	45.014	22.959	28.180	1.00 23.04
ATOM	1270	O	PRO	A	221	46.065	23.666	28.292	1.00 23.99
ATOM	1271	CB	PRO	A	221	45.545	20.543	27.648	1.00 20.22
ATOM	1272	CG	PRO	A	221	45.946	19.855	26.390	1.00 20.63
ATOM	1273	CD	PRO	A	221	46.571	20.994	25.602	1.00 20.45
ATOM	1274	N	LEU	A	222	43.934	23.132	28.933	1.00 25.72
ATOM	1275	CA	LEU	A	222	43.873	24.158	29.991	1.00 28.32
ATOM	1276	C	LEU	A	222	43.425	23.516	31.291	1.00 30.88
ATOM	1277	O	LEU	A	222	42.248	23.042	31.403	1.00 31.71
ATOM	1278	CB	LEU	A	222	42.880	25.261	29.620	1.00 27.52
ATOM	1279	CG	LEU	A	222	43.264	26.233	28.506	1.00 27.30
ATOM	1280	CD1	LEU	A	222	42.040	27.042	28.096	1.00 26.79
ATOM	1281	CD2	LEU	A	222	44.382	27.143	28.983	1.00 27.13
ATOM	1282	N	ASN	A	223	44.320	23.470	32.273	1.00 34.15
ATOM	1283	CA	ASN	A	223	43.959	22.893	33.583	1.00 37.64
ATOM	1284	C	ASN	A	223	43.014	23.882	34.254	1.00 38.54
ATOM	1285	O	ASN	A	223	42.864	25.056	33.785	1.00 36.72
ATOM	1286	CB	ASN	A	223	45.204	22.663	34.457	1.00 38.54
ATOM	1287	CG	ASN	A	223	45.905	23.952	34.839	1.00 39.09
ATOM	1288	OD1	ASN	A	223	45.268	24.903	35.375	1.00 41.39
ATOM	1289	ND2	ASN	A	223	47.208	24.013	34.595	1.00 40.09
ATOM	1290	N	GLN	A	224	42.380	23.444	35.335	1.00 41.79
ATOM	1291	CA	GLN	A	224	41.415	24.278	36.073	1.00 43.58
ATOM	1292	C	GLN	A	224	41.898	25.708	36.359	1.00 42.52
ATOM	1293	O	GLN	A	224	41.138	26.705	36.126	1.00 42.75
ATOM	1294	CB	GLN	A	224	41.021	23.572	37.378	1.00 46.22
ATOM	1295	CG	GLN	A	224	39.629	23.956	37.827	1.00 49.86
ATOM	1296	CD	GLN	A	224	39.085	23.160	38.990	1.00 51.40
ATOM	1297	OE1	GLN	A	224	37.923	23.406	39.443	1.00 52.42
ATOM	1298	NE2	GLN	A	224	39.866	22.215	39.496	1.00 52.75

FIG. 1U

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ATOM   1299  N   SER A 225      43.133  25.852  36.831  1.00 40.27
ATOM   1300  CA  SER A 225      43.669  27.200  37.138  1.00 39.30
ATOM   1301  C   SER A 225      43.989  28.028  35.893  1.00 36.57
ATOM   1302  O   SER A 225      43.920  29.292  35.930  1.00 36.27
ATOM   1303  CB  SER A 225      44.917  27.094  38.027  1.00 40.27
ATOM   1304  OG  SER A 225      45.974  26.411  37.376  1.00 42.21
ATOM   1305  N   GLU A 226      44.339  27.364  34.796  1.00 34.29
ATOM   1306  CA  GLU A 226      44.654  28.083  33.542  1.00 32.79
ATOM   1307  C   GLU A 226      43.375  28.651  32.954  1.00 31.17
ATOM   1308  O   GLU A 226      43.354  29.815  32.454  1.00 29.09
ATOM   1309  CB  GLU A 226      45.307  27.144  32.526  1.00 33.69
ATOM   1310  CG  GLU A 226      46.708  26.696  32.902  1.00 36.40
ATOM   1311  CD  GLU A 226      47.251  25.619  31.972  1.00 37.70
ATOM   1312  OE1 GLU A 226      46.585  24.567  31.830  1.00 37.54
ATOM   1313  OE2 GLU A 226      48.340  25.823  31.389  1.00 37.14
ATOM   1314  N   VAL A 227      42.305  27.867  33.007  1.00 29.89
ATOM   1315  CA  VAL A 227      41.013  28.312  32.458  1.00 30.15
ATOM   1316  C   VAL A 227      40.512  29.547  33.203  1.00 29.84
ATOM   1317  O   VAL A 227      39.922  30.484  32.582  1.00 30.30
ATOM   1318  CB  VAL A 227      39.940  27.210  32.558  1.00 30.93
ATOM   1319  CG1 VAL A 227      38.800  27.538  31.637  1.00 32.67
ATOM   1320  CG2 VAL A 227      40.516  25.867  32.183  1.00 32.31
ATOM   1321  N   LEU A 228      40.731  29.581  34.513  1.00 28.88
ATOM   1322  CA  LEU A 228      40.292  30.726  35.336  1.00 27.31
ATOM   1323  C   LEU A 228      41.059  31.992  34.975  1.00 27.59
ATOM   1324  O   LEU A 228      40.491  33.129  35.020  1.00 27.84
ATOM   1325  CB  LEU A 228      40.496  30.420  36.819  1.00 27.50
ATOM   1326  CG  LEU A 228      39.700  29.259  37.419  1.00 29.32
ATOM   1327  CD1 LEU A 228      40.129  29.053  38.867  1.00 28.16
ATOM   1328  CD2 LEU A 228      38.205  29.549  37.339  1.00 28.58
ATOM   1329  N   ALA A 229      42.327  31.835  34.610  1.00 27.12
ATOM   1330  CA  ALA A 229      43.176  32.998  34.257  1.00 27.64
ATOM   1331  C   ALA A 229      43.134  33.347  32.776  1.00 27.65
ATOM   1332  O   ALA A 229      43.460  34.504  32.375  1.00 29.94
ATOM   1333  CB  ALA A 229      44.617  32.736  34.682  1.00 27.52
ATOM   1334  N   SER A 230      42.736  32.393  31.947  1.00 26.68
ATOM   1335  CA  SER A 230      42.692  32.635  30.498  1.00 26.33
ATOM   1336  C   SER A 230      41.438  33.360  30.032  1.00 26.22
ATOM   1337  O   SER A 230      40.356  33.302  30.695  1.00 25.70
ATOM   1338  CB  SER A 230      42.815  31.310  29.746  1.00 26.07
ATOM   1339  OG  SER A 230      42.759  31.519  28.344  1.00 26.54
ATOM   1340  N   VAL A 231      41.562  34.056  28.909  1.00 25.03
ATOM   1341  CA  VAL A 231      40.415  34.764  28.320  1.00 24.89
ATOM   1342  C   VAL A 231      39.785  33.776  27.346  1.00 24.75
ATOM   1343  O   VAL A 231      40.453  33.310  26.371  1.00 25.97
ATOM   1344  CB  VAL A 231      40.859  36.043  27.568  1.00 24.38
ATOM   1345  CG1 VAL A 231      39.729  36.554  26.678  1.00 22.98
ATOM   1346  CG2 VAL A 231      41.244  37.119  28.577  1.00 23.20
ATOM   1347  N   GLY A 232      38.526  33.433  27.588  1.00 23.26
ATOM   1348  CA  GLY A 232      37.846  32.481  26.729  1.00 22.77
ATOM   1349  C   GLY A 232      37.125  33.081  25.538  1.00 21.57
ATOM   1350  O   GLY A 232      36.590  32.324  24.666  1.00 20.69
ATOM   1351  N   GLY A 233      37.078  34.408  25.468  1.00 19.21
ATOM   1352  CA  GLY A 233      36.410  35.050  24.353  1.00 17.96
ATOM   1353  C   GLY A 233      35.599  36.275  24.731  1.00 18.25
ATOM   1354  O   GLY A 233      35.778  36.866  25.851  1.00 15.19
ATOM   1355  N   SER A 234      34.708  36.677  23.828  1.00 16.58
ATOM   1356  CA  SER A 234      33.864  37.864  24.053  1.00 16.83
ATOM   1357  C   SER A 234      32.423  37.667  23.599  1.00 17.82
ATOM   1358  O   SER A 234      32.134  36.995  22.552  1.00 17.90
ATOM   1359  CB  SER A 234      34.426  39.072  23.291  1.00 16.36
ATOM   1360  OG  SER A 234      35.816  39.253  23.508  1.00 18.23
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FIG. 1V

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ATOM   1361  N   MET A 235      31.506  38.227  24.372  1.00 18.00
ATOM   1362  CA  MET A 235      30.091  38.201  24.010  1.00 17.58
ATOM   1363  C   MET A 235      29.732  39.677  23.996  1.00 18.27
ATOM   1364  O   MET A 235      29.594  40.322  25.087  1.00 19.03
ATOM   1365  CB  MET A 235      29.232  37.475  25.046  1.00 16.91
ATOM   1366  CG  MET A 235      27.759  37.455  24.634  1.00 17.60
ATOM   1367  SD  MET A 235      26.597  36.751  25.819  1.00 20.56
ATOM   1368  CE  MET A 235      25.105  36.803  24.857  1.00 21.69
ATOM   1369  N   ILE A 236      29.629  40.248  22.801  1.00 19.70
ATOM   1370  CA  ILE A 236      29.271  41.669  22.674  1.00 19.40
ATOM   1371  C   ILE A 236      27.764  41.758  22.522  1.00 20.06
ATOM   1372  O   ILE A 236      27.175  41.365  21.467  1.00 16.87
ATOM   1373  CB  ILE A 236      29.985  42.341  21.470  1.00 21.41
ATOM   1374  CG1 ILE A 236      31.452  42.625  21.821  1.00 22.57
ATOM   1375  CG2 ILE A 236      29.329  43.672  21.149  1.00 21.72
ATOM   1376  CD1 ILE A 236      32.243  41.426  22.228  1.00 25.65
ATOM   1377  N   ILE A 237      27.122  42.246  23.575  1.00 20.16
ATOM   1378  CA  ILE A 237      25.663  42.382  23.599  1.00 21.01
ATOM   1379  C   ILE A 237      25.215  43.710  22.996  1.00 22.16
ATOM   1380  O   ILE A 237      25.620  44.812  23.472  1.00 22.96
ATOM   1381  CB  ILE A 237      25.153  42.241  25.050  1.00 21.36
ATOM   1382  CG1 ILE A 237      25.346  40.791  25.498  1.00 22.29
ATOM   1383  CG2 ILE A 237      23.694  42.660  25.156  1.00 20.45
ATOM   1384  CD1 ILE A 237      25.002  40.529  26.939  1.00 24.84
ATOM   1385  N   GLY A 238      24.404  43.626  21.946  1.00 23.30
ATOM   1386  CA  GLY A 238      23.903  44.820  21.288  1.00 25.11
ATOM   1387  C   GLY A 238      24.821  45.437  20.244  1.00 26.35
ATOM   1388  O   GLY A 238      24.644  46.640  19.874  1.00 27.08
ATOM   1389  N   GLY A 239      25.792  44.681  19.743  1.00 25.50
ATOM   1390  CA  GLY A 239      26.679  45.251  18.747  1.00 24.81
ATOM   1391  C   GLY A 239      27.807  44.371  18.242  1.00 26.38
ATOM   1392  O   GLY A 239      27.942  43.167  18.632  1.00 23.61
ATOM   1393  N   ILE A 240      28.632  44.960  17.383  1.00 26.33
ATOM   1394  CA  ILE A 240      29.780  44.273  16.758  1.00 25.87
ATOM   1395  C   ILE A 240      31.067  45.033  17.055  1.00 26.95
ATOM   1396  O   ILE A 240      31.121  46.287  16.882  1.00 28.86
ATOM   1397  CB  ILE A 240      29.607  44.226  15.226  1.00 25.88
ATOM   1398  CG1 ILE A 240      28.298  43.519  14.871  1.00 25.12
ATOM   1399  CG2 ILE A 240      30.806  43.541  14.581  1.00 26.56
ATOM   1400  CD1 ILE A 240      27.939  43.599  13.396  1.00 24.59
ATOM   1401  N   ASP A 241      32.100  44.323  17.498  1.00 25.24
ATOM   1402  CA  ASP A 241      33.395  44.973  17.781  1.00 25.13
ATOM   1403  C   ASP A 241      34.383  44.548  16.698  1.00 26.31
ATOM   1404  O   ASP A 241      34.676  43.326  16.536  1.00 26.89
ATOM   1405  CB  ASP A 241      33.922  44.561  19.153  1.00 24.85
ATOM   1406  CG  ASP A 241      35.171  45.325  19.541  1.00 24.81
ATOM   1407  OD1 ASP A 241      35.144  46.032  20.567  1.00 27.86
ATOM   1408  OD2 ASP A 241      36.180  45.226  18.817  1.00 25.69
ATOM   1409  N   HIS A 242      34.913  45.517  15.960  1.00 26.86
ATOM   1410  CA  HIS A 242      35.853  45.222  14.852  1.00 27.45
ATOM   1411  C   HIS A 242      37.197  44.613  15.221  1.00 25.41
ATOM   1412  O   HIS A 242      37.871  43.998  14.347  1.00 23.94
ATOM   1413  CB  HIS A 242      36.085  46.481  14.013  1.00 32.38
ATOM   1414  CG  HIS A 242      34.858  46.957  13.304  1.00 37.46
ATOM   1415  ND1 HIS A 242      33.822  47.591  13.956  1.00 39.65
ATOM   1416  CD2 HIS A 242      34.472  46.837  12.011  1.00 39.29
ATOM   1417  CE1 HIS A 242      32.850  47.840  13.096  1.00 40.56
ATOM   1418  NE2 HIS A 242      33.219  47.392  11.909  1.00 40.36
ATOM   1419  N   SER A 243      37.615  44.751  16.471  1.00 22.23
ATOM   1420  CA  SER A 243      38.915  44.184  16.877  1.00 22.06
ATOM   1421  C   SER A 243      38.843  42.667  17.011  1.00 20.51
ATOM   1422  O   SER A 243      39.897  41.986  17.130  1.00 23.23
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FIG. 1W

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ATOM   1423  CB  SER A 243      39.368  44.785  18.211  1.00 22.47
ATOM   1424  OG  SER A 243      38.515  44.386  19.274  1.00 23.32
ATOM   1425  N   LEU A 244      37.635  42.115  16.979  1.00 20.52
ATOM   1426  CA  LEU A 244      37.454  40.649  17.145  1.00 18.32
ATOM   1427  C   LEU A 244      37.535  39.844  15.860  1.00 18.66
ATOM   1428  O   LEU A 244      37.482  38.576  15.892  1.00 18.25
ATOM   1429  CB  LEU A 244      36.120  40.368  17.843  1.00 18.01
ATOM   1430  CG  LEU A 244      35.998  41.054  19.206  1.00 17.93
ATOM   1431  CD1 LEU A 244      34.689  40.666  19.885  1.00 17.04
ATOM   1432  CD2 LEU A 244      37.189  40.661  20.063  1.00 19.23
ATOM   1433  N   TYR A 245      37.666  40.522  14.729  1.00 18.73
ATOM   1434  CA  TYR A 245      37.756  39.795  13.459  1.00 19.72
ATOM   1435  C   TYR A 245      38.536  40.545  12.398  1.00 20.55
ATOM   1436  O   TYR A 245      38.819  41.771  12.542  1.00 21.10
ATOM   1437  CB  TYR A 245      36.357  39.494  12.924  1.00 19.56
ATOM   1438  CG  TYR A 245      35.606  40.708  12.421  1.00 20.40
ATOM   1439  CD1 TYR A 245      34.977  41.586  13.302  1.00 20.11
ATOM   1440  CD2 TYR A 245      35.512  40.966  11.055  1.00 20.70
ATOM   1441  CE1 TYR A 245      34.265  42.689  12.834  1.00 21.90
ATOM   1442  CE2 TYR A 245      34.809  42.060  10.573  1.00 22.10
ATOM   1443  CZ  TYR A 245      34.184  42.919  11.466  1.00 23.05
ATOM   1444  OH  TYR A 245      33.476  43.993  10.979  1.00 22.53
ATOM   1445  N   THR A 246      38.902  39.829  11.340  1.00 20.48
ATOM   1446  CA  THR A 246      39.621  40.429  10.195  1.00 19.46
ATOM   1447  C   THR A 246      38.811  40.054   8.964  1.00 19.29
ATOM   1448  O   THR A 246      37.999  39.085   9.000  1.00 16.84
ATOM   1449  CB  THR A 246      41.049  39.865  10.031  1.00 19.69
ATOM   1450  OG1 THR A 246      40.997  38.434   9.953  1.00 20.05
ATOM   1451  CG2 THR A 246      41.929  40.294  11.194  1.00 19.01
ATOM   1452  N   GLY A 247      38.996  40.793   7.879  1.00 19.48
ATOM   1453  CA  GLY A 247      38.259  40.490   6.668  1.00 19.61
ATOM   1454  C   GLY A 247      36.812  40.927   6.747  1.00 20.26
ATOM   1455  O   GLY A 247      36.412  41.712   7.660  1.00 21.64
ATOM   1456  N   SER A 248      36.006  40.437   5.816  1.00 21.23
ATOM   1457  CA  SER A 248      34.580  40.806   5.765  1.00 23.54
ATOM   1458  C   SER A 248      33.649  39.836   6.484  1.00 23.00
ATOM   1459  O   SER A 248      33.978  38.625   6.684  1.00 21.96
ATOM   1460  CB  SER A 248      34.135  40.936   4.304  1.00 24.06
ATOM   1461  OG  SER A 248      34.814  41.999   3.656  1.00 28.27
ATOM   1462  N   LEU A 249      32.494  40.355   6.881  1.00 23.33
ATOM   1463  CA  LEU A 249      31.453  39.551   7.550  1.00 23.71
ATOM   1464  C   LEU A 249      30.478  39.103   6.468  1.00 23.26
ATOM   1465  O   LEU A 249      29.913  39.958   5.721  1.00 24.66
ATOM   1466  CB  LEU A 249      30.687  40.392   8.576  1.00 22.83
ATOM   1467  CG  LEU A 249      31.234  40.585   9.992  1.00 23.68
ATOM   1468  CD1 LEU A 249      30.483  41.728  10.659  1.00 23.07
ATOM   1469  CD2 LEU A 249      31.077  39.299  10.802  1.00 22.16
ATOM   1470  N   TRP A 250      30.285  37.797   6.335  1.00 21.28
ATOM   1471  CA  TRP A 250      29.328  37.282   5.348  1.00 18.03
ATOM   1472  C   TRP A 250      28.115  36.810   6.115  1.00 18.51
ATOM   1473  O   TRP A 250      28.242  36.079   7.153  1.00 18.65
ATOM   1474  CB  TRP A 250      29.925  36.128   4.550  1.00 19.15
ATOM   1475  CG  TRP A 250      30.759  36.597   3.411  1.00 19.10
ATOM   1476  CD1 TRP A 250      32.061  36.998   3.456  1.00 18.51
ATOM   1477  CD2 TRP A 250      30.328  36.777   2.058  1.00 18.74
ATOM   1478  NE1 TRP A 250      32.470  37.418   2.214  1.00 18.41
ATOM   1479  CE2 TRP A 250      31.425  37.294   1.336  1.00 18.71
ATOM   1480  CE3 TRP A 250      29.118  36.554   1.386  1.00 19.61
ATOM   1481  CZ2 TRP A 250      31.352  37.594  -0.029  1.00 18.57
ATOM   1482  CZ3 TRP A 250      29.043  36.853   0.026  1.00 20.92
ATOM   1483  CH2 TRP A 250      30.158  37.369  -0.666  1.00 17.98
ATOM   1484  N   TYR A 251      26.939  37.203   5.644  1.00 17.22
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FIG. 1X

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ATOM   1485  CA  TYR A 251      25.699  36.825   6.328  1.00 16.85
ATOM   1486  C   TYR A 251      24.875  35.751   5.642  1.00 16.82
ATOM   1487  O   TYR A 251      24.668  35.782   4.397  1.00 17.05
ATOM   1488  CB  TYR A 251      24.814  38.059   6.536  1.00 17.46
ATOM   1489  CG  TYR A 251      25.389  39.070   7.493  1.00 17.27
ATOM   1490  CD1 TYR A 251      26.265  40.065   7.055  1.00 18.34
ATOM   1491  CD2 TYR A 251      25.076  39.018   8.852  1.00 16.39
ATOM   1492  CE1 TYR A 251      26.819  40.984   7.955  1.00 18.20
ATOM   1493  CE2 TYR A 251      25.622  39.925   9.753  1.00 17.81
ATOM   1494  CZ  TYR A 251      26.487  40.900   9.302  1.00 17.43
ATOM   1495  OH  TYR A 251      27.014  41.779  10.215  1.00 20.25
ATOM   1496  N   THR A 252      24.395  34.803   6.436  1.00 15.07
ATOM   1497  CA  THR A 252      23.525  33.725   5.933  1.00 14.48
ATOM   1498  C   THR A 252      22.204  33.996   6.646  1.00 16.15
ATOM   1499  O   THR A 252      22.193  34.429   7.845  1.00 16.66
ATOM   1500  CB  THR A 252      24.056  32.325   6.330  1.00 14.69
ATOM   1501  OG1 THR A 252      23.273  31.316   5.684  1.00 13.97
ATOM   1502  CG2 THR A 252      23.974  32.118   7.839  1.00 14.05
ATOM   1503  N   PRO A 253      21.070  33.774   5.972  1.00 15.93
ATOM   1504  CA  PRO A 253      19.826  34.054   6.694  1.00 17.09
ATOM   1505  C   PRO A 253      19.418  33.029   7.741  1.00 18.67
ATOM   1506  O   PRO A 253      19.782  31.813   7.653  1.00 17.11
ATOM   1507  CB  PRO A 253      18.789  34.161   5.572  1.00 17.20
ATOM   1508  CG  PRO A 253      19.304  33.207   4.545  1.00 17.18
ATOM   1509  CD  PRO A 253      20.809  33.468   4.553  1.00 17.14
ATOM   1510  N   ILE A 254      18.692  33.501   8.750  1.00 18.82
ATOM   1511  CA  ILE A 254      18.165  32.604   9.792  1.00 20.14
ATOM   1512  C   ILE A 254      16.885  32.091   9.137  1.00 21.33
ATOM   1513  O   ILE A 254      15.911  32.875   8.914  1.00 21.52
ATOM   1514  CB  ILE A 254      17.827  33.368  11.091  1.00 20.62
ATOM   1515  CG1 ILE A 254      19.124  33.752  11.806  1.00 20.82
ATOM   1516  CG2 ILE A 254      16.935  32.509  11.994  1.00 19.41
ATOM   1517  CD1 ILE A 254      18.920  34.458  13.127  1.00 22.19
ATOM   1518  N   ARG A 255      16.868  30.810   8.795  1.00 22.06
ATOM   1519  CA  ARG A 255      15.702  30.211   8.115  1.00 23.47
ATOM   1520  C   ARG A 255      14.398  30.343   8.880  1.00 24.68
ATOM   1521  O   ARG A 255      13.334  30.719   8.299  1.00 25.49
ATOM   1522  CB  ARG A 255      15.951  28.735   7.852  1.00 22.62
ATOM   1523  CG  ARG A 255      14.843  28.093   7.053  1.00 22.10
ATOM   1524  CD  ARG A 255      14.985  26.598   7.069  1.00 22.76
ATOM   1525  NE  ARG A 255      14.031  25.958   6.176  1.00 22.51
ATOM   1526  CZ  ARG A 255      13.692  24.679   6.256  1.00 22.37
ATOM   1527  NH1 ARG A 255      14.232  23.914   7.195  1.00 20.91
ATOM   1528  NH2 ARG A 255      12.819  24.166   5.396  1.00 23.78
ATOM   1529  N   ARG A 256      14.451  30.023  10.165  1.00 24.98
ATOM   1530  CA  ARG A 256      13.264  30.085  11.029  1.00 25.56
ATOM   1531  C   ARG A 256      13.723  30.441  12.438  1.00 24.84
ATOM   1532  O   ARG A 256      14.829  30.013  12.893  1.00 22.14
ATOM   1533  CB  ARG A 256      12.561  28.729  11.009  1.00 27.37
ATOM   1534  CG  ARG A 256      11.350  28.599  11.914  1.00 29.24
ATOM   1535  CD  ARG A 256      10.878  27.150  11.899  1.00 29.60
ATOM   1536  NE  ARG A 256      10.180  26.788  13.126  1.00 31.29
ATOM   1537  CZ  ARG A 256      10.043  25.543  13.563  1.00 31.25
ATOM   1538  NH1 ARG A 256      10.559  24.535  12.870  1.00 31.19
ATOM   1539  NH2 ARG A 256       9.398  25.307  14.698  1.00 32.97
ATOM   1540  N   GLU A 257      12.914  31.219  13.141  1.00 24.01
ATOM   1541  CA  GLU A 257      13.270  31.650  14.500  1.00 23.46
ATOM   1542  C   GLU A 257      12.829  30.739  15.636  1.00 23.02
ATOM   1543  O   GLU A 257      11.749  30.947  16.264  1.00 26.15
ATOM   1544  CB  GLU A 257      12.739  33.055  14.748  1.00 23.25
ATOM   1545  CG  GLU A 257      13.439  34.123  13.930  1.00 26.24
ATOM   1546  CD  GLU A 257      12.572  35.353  13.746  1.00 27.27
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FIG. 1Y

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ATOM   1547  OE1 GLU A 257      13.124  36.470  13.673  1.00 27.35
ATOM   1548  OE2 GLU A 257      11.334  35.197  13.665  1.00 30.46
ATOM   1549  N   TRP A 258      13.632  29.719  15.898  1.00 19.64
ATOM   1550  CA  TRP A 258      13.390  28.798  17.016  1.00 19.75
ATOM   1551  C   TRP A 258      14.812  28.548  17.495  1.00 19.46
ATOM   1552  O   TRP A 258      15.267  29.190  18.500  1.00 20.47
ATOM   1553  CB  TRP A 258      12.632  27.537  16.561  1.00 18.27
ATOM   1554  CG  TRP A 258      13.203  26.710  15.455  1.00 17.96
ATOM   1555  CD1 TRP A 258      13.898  27.143  14.364  1.00 18.43
ATOM   1556  CD2 TRP A 258      13.051  25.293  15.298  1.00 17.87
ATOM   1557  NE1 TRP A 258      14.187  26.082  13.537  1.00 18.62
ATOM   1558  CE2 TRP A 258      13.678  24.935  14.088  1.00 17.86
ATOM   1559  CE3 TRP A 258      12.441  24.291  16.067  1.00 17.50
ATOM   1560  CZ2 TRP A 258      13.717  23.614  13.624  1.00 19.19
ATOM   1561  CZ3 TRP A 258      12.477  22.976  15.608  1.00 19.16
ATOM   1562  CH2 TRP A 258      13.113  22.650  14.396  1.00 18.86
ATOM   1563  N   TYR A 259      15.538  27.670  16.814  1.00 18.33
ATOM   1564  CA  TYR A 259      16.965  27.458  17.126  1.00 15.42
ATOM   1565  C   TYR A 259      17.550  28.474  16.157  1.00 16.46
ATOM   1566  O   TYR A 259      16.789  29.066  15.323  1.00 15.71
ATOM   1567  CB  TYR A 259      17.439  26.078  16.671  1.00 13.86
ATOM   1568  CG  TYR A 259      17.056  24.927  17.564  1.00 13.98
ATOM   1569  CD1 TYR A 259      17.876  24.539  18.627  1.00 13.32
ATOM   1570  CD2 TYR A 259      15.875  24.224  17.346  1.00 12.14
ATOM   1571  CE1 TYR A 259      17.520  23.467  19.450  1.00 15.06
ATOM   1572  CE2 TYR A 259      15.510  23.167  18.155  1.00 14.24
ATOM   1573  CZ  TYR A 259      16.329  22.789  19.200  1.00 14.26
ATOM   1574  OH  TYR A 259      15.940  21.719  19.955  1.00 12.92
ATOM   1575  N   TYR A 260      18.851  28.725  16.224  1.00 14.50
ATOM   1576  CA  TYR A 260      19.440  29.630  15.232  1.00 15.21
ATOM   1577  C   TYR A 260      19.716  28.718  14.037  1.00 15.90
ATOM   1578  O   TYR A 260      20.866  28.210  13.836  1.00 16.76
ATOM   1579  CB  TYR A 260      20.722  30.269  15.759  1.00 13.84
ATOM   1580  CG  TYR A 260      20.426  31.416  16.690  1.00 14.32
ATOM   1581  CD1 TYR A 260      20.534  31.270  18.078  1.00 13.41
ATOM   1582  CD2 TYR A 260      19.996  32.642  16.187  1.00 13.45
ATOM   1583  CE1 TYR A 260      20.224  32.320  18.933  1.00 13.15
ATOM   1584  CE2 TYR A 260      19.680  33.699  17.037  1.00 12.56
ATOM   1585  CZ  TYR A 260      19.801  33.530  18.404  1.00 13.22
ATOM   1586  OH  TYR A 260      19.531  34.582  19.239  1.00 12.88
ATOM   1587  N   GLU A 261      18.664  28.476  13.260  1.00 15.81
ATOM   1588  CA  GLU A 261      18.741  27.586  12.081  1.00 17.54
ATOM   1589  C   GLU A 261      19.191  28.266  10.791  1.00 17.31
ATOM   1590  O   GLU A 261      18.665  29.355  10.402  1.00 16.63
ATOM   1591  CB  GLU A 261      17.382  26.914  11.842  1.00 16.53
ATOM   1592  CG  GLU A 261      17.326  26.076  10.573  1.00 19.47
ATOM   1593  CD  GLU A 261      15.965  25.454  10.326  1.00 20.18
ATOM   1594  OE1 GLU A 261      14.956  26.037  10.766  1.00 21.27
ATOM   1595  OE2 GLU A 261      15.902  24.390   9.673  1.00 20.94
ATOM   1596  N   VAL A 262      20.153  27.640  10.122  1.00 16.45
ATOM   1597  CA  VAL A 262      20.679  28.147   8.842  1.00 16.13
ATOM   1598  C   VAL A 262      20.620  27.006   7.831  1.00 17.33
ATOM   1599  O   VAL A 262      20.168  25.863   8.166  1.00 17.30
ATOM   1600  CB  VAL A 262      22.131  28.624   8.982  1.00 14.58
ATOM   1601  CG1 VAL A 262      22.218  29.690  10.064  1.00 14.84
ATOM   1602  CG2 VAL A 262      23.039  27.449   9.300  1.00 14.53
ATOM   1603  N   ILE A 263      21.064  27.271   6.608  1.00 17.34
ATOM   1604  CA  ILE A 263      21.044  26.245   5.554  1.00 16.67
ATOM   1605  C   ILE A 263      22.419  26.042   4.931  1.00 16.64
ATOM   1606  O   ILE A 263      23.054  27.016   4.418  1.00 17.50
ATOM   1607  CB  ILE A 263      20.031  26.619   4.445  1.00 18.45
ATOM   1608  CG1 ILE A 263      18.608  26.522   4.996  1.00 18.90
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FIG. 1Z

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ATOM   1609  CG2 ILE A 263      20.192  25.694   3.243  1.00 18.17
ATOM   1610  CD1 ILE A 263      17.541  26.974   4.023  1.00 23.31
ATOM   1611  N   ILE A 264      22.897  24.802   4.988  1.00 16.67
ATOM   1612  CA  ILE A 264      24.199  24.413   4.409  1.00 14.63
ATOM   1613  C   ILE A 264      23.882  23.836   3.031  1.00 16.44
ATOM   1614  O   ILE A 264      23.019  22.915   2.908  1.00 13.53
ATOM   1615  CB  ILE A 264      24.877  23.320   5.253  1.00 14.79
ATOM   1616  CG1 ILE A 264      25.174  23.855   6.657  1.00 12.53
ATOM   1617  CG2 ILE A 264      26.154  22.846   4.563  1.00 12.07
ATOM   1618  CD1 ILE A 264      25.685  22.799   7.615  1.00 12.69
ATOM   1619  N   VAL A 265      24.546  24.334   1.992  1.00 17.37
ATOM   1620  CA  VAL A 265      24.258  23.841   0.627  1.00 18.64
ATOM   1621  C   VAL A 265      25.368  23.004   0.006  1.00 19.95
ATOM   1622  O   VAL A 265      25.202  22.455  -1.127  1.00 19.29
ATOM   1623  CB  VAL A 265      23.956  25.011  -0.322  1.00 18.56
ATOM   1624  CG1 VAL A 265      22.874  25.901   0.287  1.00 16.70
ATOM   1625  CG2 VAL A 265      25.227  25.802  -0.590  1.00 17.47
ATOM   1626  N   ARG A 266      26.486  22.872   0.707  1.00 20.42
ATOM   1627  CA  ARG A 266      27.617  22.098   0.165  1.00 20.48
ATOM   1628  C   ARG A 266      28.752  22.044   1.162  1.00 19.59
ATOM   1629  O   ARG A 266      29.030  23.055   1.885  1.00 19.51
ATOM   1630  CB  ARG A 266      28.112  22.763  -1.129  1.00 22.33
ATOM   1631  CG  ARG A 266      29.417  22.218  -1.713  1.00 22.40
ATOM   1632  CD  ARG A 266      29.939  23.170  -2.789  1.00 24.49
ATOM   1633  NE  ARG A 266      31.244  22.785  -3.322  1.00 24.49
ATOM   1634  CZ  ARG A 266      31.444  22.266  -4.528  1.00 26.46
ATOM   1635  NH1 ARG A 266      30.426  22.061  -5.349  1.00 25.31
ATOM   1636  NH2 ARG A 266      32.672  21.956  -4.920  1.00 27.88
ATOM   1637  N   VAL A 267      29.404  20.891   1.246  1.00 18.31
ATOM   1638  CA  VAL A 267      30.561  20.766   2.136  1.00 18.32
ATOM   1639  C   VAL A 267      31.671  20.072   1.369  1.00 18.25
ATOM   1640  O   VAL A 267      31.409  19.192   0.489  1.00 19.14
ATOM   1641  CB  VAL A 267      30.248  19.974   3.456  1.00 18.72
ATOM   1642  CG1 VAL A 267      28.784  19.645   3.547  1.00 18.30
ATOM   1643  CG2 VAL A 267      31.112  18.728   3.554  1.00 17.65
ATOM   1644  N   GLU A 268      32.903  20.471   1.647  1.00 16.18
ATOM   1645  CA  GLU A 268      34.046  19.848   0.990  1.00 17.71
ATOM   1646  C   GLU A 268      35.169  19.546   1.970  1.00 16.08
ATOM   1647  O   GLU A 268      35.293  20.191   3.064  1.00 13.62
ATOM   1648  CB  GLU A 268      34.550  20.717  -0.177  1.00 18.50
ATOM   1649  CG  GLU A 268      34.430  22.207   0.030  1.00 22.46
ATOM   1650  CD  GLU A 268      34.888  23.016  -1.181  1.00 22.13
ATOM   1651  OE1 GLU A 268      34.216  22.970  -2.237  1.00 20.91
ATOM   1652  OE2 GLU A 268      35.927  23.703  -1.067  1.00 22.44
ATOM   1653  N   ILE A 269      35.948  18.531   1.623  1.00 13.57
ATOM   1654  CA  ILE A 269      37.103  18.112   2.418  1.00 13.89
ATOM   1655  C   ILE A 269      38.259  18.448   1.485  1.00 14.06
ATOM   1656  O   ILE A 269      38.396  17.832   0.386  1.00 14.03
ATOM   1657  CB  ILE A 269      37.051  16.596   2.703  1.00 14.48
ATOM   1658  CG1 ILE A 269      35.697  16.239   3.327  1.00 14.59
ATOM   1659  CG2 ILE A 269      38.180  16.193   3.645  1.00 12.12
ATOM   1660  CD1 ILE A 269      35.358  17.022   4.592  1.00 13.16
ATOM   1661  N   ASN A 270      39.067  19.431   1.872  1.00 14.16
ATOM   1662  CA  ASN A 270      40.205  19.886   1.038  1.00 13.20
ATOM   1663  C   ASN A 270      39.774  20.177  -0.399  1.00 13.24
ATOM   1664  O   ASN A 270      40.427  19.714  -1.385  1.00 13.72
ATOM   1665  CB  ASN A 270      41.336  18.852   1.047  1.00 11.19
ATOM   1666  CG  ASN A 270      42.424  19.186   2.054  1.00 13.23
ATOM   1667  OD1 ASN A 270      42.339  20.224   2.790  1.00 13.62
ATOM   1668  ND2 ASN A 270      43.454  18.348   2.117  1.00 11.67
ATOM   1669  N   GLY A 271      38.691  20.932  -0.540  1.00 13.07
ATOM   1670  CA  GLY A 271      38.210  21.302  -1.858  1.00 13.58
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FIG. 1AA

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ATOM   1671  C   GLY A 271      37.393  20.241  -2.564  1.00 14.87
ATOM   1672  O   GLY A 271      36.704  20.545  -3.581  1.00 13.70
ATOM   1673  N   GLN A 272      37.447  19.005  -2.076  1.00 14.64
ATOM   1674  CA  GLN A 272      36.674  17.914  -2.705  1.00 14.45
ATOM   1675  C   GLN A 272      35.261  17.870  -2.140  1.00 15.83
ATOM   1676  O   GLN A 272      35.050  17.717  -0.902  1.00 15.81
ATOM   1677  CB  GLN A 272      37.357  16.561  -2.486  1.00 14.85
ATOM   1678  CG  GLN A 272      36.692  15.421  -3.250  1.00 14.45
ATOM   1679  CD  GLN A 272      37.499  14.135  -3.211  1.00 16.34
ATOM   1680  OE1 GLN A 272      37.097  13.134  -2.535  1.00 20.05
ATOM   1681  NE2 GLN A 272      38.633  14.121  -3.909  1.00 13.09
ATOM   1682  N   ASP A 273      34.291  17.995  -3.035  1.00 16.17
ATOM   1683  CA  ASP A 273      32.857  17.987  -2.686  1.00 17.89
ATOM   1684  C   ASP A 273      32.388  16.612  -2.201  1.00 16.92
ATOM   1685  O   ASP A 273      32.713  15.566  -2.831  1.00 16.53
ATOM   1686  CB  ASP A 273      32.060  18.395  -3.930  1.00 20.38
ATOM   1687  CG  ASP A 273      30.576  18.526  -3.665  1.00 20.89
ATOM   1688  OD1 ASP A 273      29.827  18.788  -4.630  1.00 21.98
ATOM   1689  OD2 ASP A 273      30.155  18.378  -2.503  1.00 22.40
ATOM   1690  N   LEU A 274      31.639  16.576  -1.101  1.00 17.95
ATOM   1691  CA  LEU A 274      31.117  15.285  -0.587  1.00 19.37
ATOM   1692  C   LEU A 274      30.092  14.805  -1.598  1.00 21.18
ATOM   1693  O   LEU A 274      29.702  13.603  -1.623  1.00 20.08
ATOM   1694  CB  LEU A 274      30.451  15.455   0.783  1.00 18.46
ATOM   1695  CG  LEU A 274      31.356  15.595   2.011  1.00 19.89
ATOM   1696  CD1 LEU A 274      30.489  15.558   3.267  1.00 17.23
ATOM   1697  CD2 LEU A 274      32.392  14.463   2.050  1.00 17.76
ATOM   1698  N   LYS A 275      29.646  15.736  -2.431  1.00 24.29
ATOM   1699  CA  LYS A 275      28.676  15.452  -3.501  1.00 29.08
ATOM   1700  C   LYS A 275      27.439  14.715  -3.000  1.00 28.92
ATOM   1701  O   LYS A 275      27.119  13.586  -3.464  1.00 30.50
ATOM   1702  CB  LYS A 275      29.360  14.642  -4.608  1.00 30.50
ATOM   1703  CG  LYS A 275      28.720  14.818  -5.970  1.00 33.82
ATOM   1704  CD  LYS A 275      29.476  14.059  -7.042  1.00 36.63
ATOM   1705  CE  LYS A 275      28.848  14.297  -8.408  1.00 38.29
ATOM   1706  NZ  LYS A 275      28.742  15.759  -8.702  1.00 39.43
ATOM   1707  N   MET A 276      26.734  15.329  -2.063  1.00 30.55
ATOM   1708  CA  MET A 276      25.519  14.722  -1.505  1.00 30.03
ATOM   1709  C   MET A 276      24.319  15.592  -1.815  1.00 30.11
ATOM   1710  O   MET A 276      24.465  16.818  -2.117  1.00 28.94
ATOM   1711  CB  MET A 276      25.641  14.576   0.011  1.00 30.29
ATOM   1712  CG  MET A 276      26.706  13.605   0.469  1.00 30.69
ATOM   1713  SD  MET A 276      26.687  13.418   2.261  1.00 32.94
ATOM   1714  CE  MET A 276      25.174  12.457   2.477  1.00 31.04
ATOM   1715  N   ASP A 277      23.136  14.994  -1.756  1.00 31.37
ATOM   1716  CA  ASP A 277      21.906  15.750  -1.994  1.00 33.34
ATOM   1717  C   ASP A 277      21.903  16.864  -0.955  1.00 33.96
ATOM   1718  O   ASP A 277      22.070  16.608   0.278  1.00 30.80
ATOM   1719  CB  ASP A 277      20.682  14.851  -1.818  1.00 36.24
ATOM   1720  CG  ASP A 277      19.377  15.595  -2.029  1.00 38.93
ATOM   1721  OD1 ASP A 277      18.332  14.925  -2.168  1.00 42.69
ATOM   1722  OD2 ASP A 277      19.386  16.844  -2.049  1.00 39.38
ATOM   1723  N   CYS A 278      21.732  18.089  -1.432  1.00 34.50
ATOM   1724  CA  CYS A 278      21.725  19.294  -0.581  1.00 37.44
ATOM   1725  C   CYS A 278      20.988  19.126   0.749  1.00 35.96
ATOM   1726  O   CYS A 278      21.503  19.540   1.834  1.00 34.38
ATOM   1727  CB  CYS A 278      21.108  20.460  -1.362  1.00 39.86
ATOM   1728  SG  CYS A 278      21.760  22.075  -0.852  1.00 50.09
ATOM   1729  N   LYS A 279      19.802  18.529   0.705  1.00 33.76
ATOM   1730  CA  LYS A 279      19.003  18.359   1.931  1.00 32.65
ATOM   1731  C   LYS A 279      19.584  17.430   2.996  1.00 30.06
ATOM   1732  O   LYS A 279      19.173  17.501   4.189  1.00 27.89
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FIG. 1BB

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ATOM   1733  CB  LYS A 279      17.574  17.939   1.567  1.00 34.74
ATOM   1734  CG  LYS A 279      17.459  16.765   0.612  1.00 39.08
ATOM   1735  CD  LYS A 279      17.576  15.429   1.326  1.00 41.32
ATOM   1736  CE  LYS A 279      17.185  14.289   0.393  1.00 42.86
ATOM   1737  NZ  LYS A 279      17.118  12.978   1.099  1.00 45.07
ATOM   1738  N   GLU A 280      20.525  16.570   2.621  1.00 27.06
ATOM   1739  CA  GLU A 280      21.141  15.659   3.612  1.00 26.22
ATOM   1740  C   GLU A 280      21.900  16.458   4.673  1.00 25.34
ATOM   1741  O   GLU A 280      21.920  16.074   5.886  1.00 23.01
ATOM   1742  CB  GLU A 280      22.109  14.693   2.928  1.00 27.98
ATOM   1743  CG  GLU A 280      21.459  13.725   1.946  1.00 31.24
ATOM   1744  CD  GLU A 280      20.486  12.765   2.610  1.00 32.55
ATOM   1745  OE1 GLU A 280      20.447  12.704   3.857  1.00 33.21
ATOM   1746  OE2 GLU A 280      19.763  12.058   1.878  1.00 34.72
ATOM   1747  N   TYR A 281      22.515  17.562   4.255  1.00 23.32
ATOM   1748  CA  TYR A 281      23.295  18.420   5.176  1.00 22.69
ATOM   1749  C   TYR A 281      22.415  19.082   6.219  1.00 23.40
ATOM   1750  O   TYR A 281      22.904  19.470   7.327  1.00 23.11
ATOM   1751  CB  TYR A 281      24.035  19.515   4.400  1.00 20.26
ATOM   1752  CG  TYR A 281      24.958  18.993   3.328  1.00 19.39
ATOM   1753  CD1 TYR A 281      25.858  17.961   3.601  1.00 17.78
ATOM   1754  CD2 TYR A 281      24.943  19.534   2.042  1.00 18.55
ATOM   1755  CE1 TYR A 281      26.719  17.478   2.623  1.00 17.05
ATOM   1756  CE2 TYR A 281      25.808  19.058   1.051  1.00 18.53
ATOM   1757  CZ  TYR A 281      26.692  18.028   1.355  1.00 17.87
ATOM   1758  OH  TYR A 281      27.558  17.533   0.407  1.00 18.13
ATOM   1759  N   ASN A 282      21.136  19.232   5.899  1.00 22.82
ATOM   1760  CA  ASN A 282      20.194  19.881   6.820  1.00 23.17
ATOM   1761  C   ASN A 282      19.089  18.922   7.238  1.00 23.84
ATOM   1762  O   ASN A 282      17.987  19.366   7.685  1.00 21.83
ATOM   1763  CB  ASN A 282      19.598  21.111   6.137  1.00 22.42
ATOM   1764  CG  ASN A 282      20.665  22.018   5.549  1.00 23.90
ATOM   1765  OD1 ASN A 282      21.426  22.693   6.298  1.00 23.87
ATOM   1766  ND2 ASN A 282      20.760  22.044   4.224  1.00 23.36
ATOM   1767  N   TYR A 283      19.343  17.623   7.102  1.00 25.74
ATOM   1768  CA  TYR A 283      18.322  16.633   7.472  1.00 28.01
ATOM   1769  C   TYR A 283      17.905  16.843   8.912  1.00 29.29
ATOM   1770  O   TYR A 283      18.686  16.572   9.881  1.00 27.50
ATOM   1771  CB  TYR A 283      18.810  15.200   7.280  1.00 29.52
ATOM   1772  CG  TYR A 283      17.783  14.200   7.756  1.00 31.64
ATOM   1773  CD1 TYR A 283      16.428  14.374   7.460  1.00 32.38
ATOM   1774  CD2 TYR A 283      18.153  13.098   8.523  1.00 33.44
ATOM   1775  CE1 TYR A 283      15.468  13.479   7.919  1.00 33.96
ATOM   1776  CE2 TYR A 283      17.201  12.194   8.987  1.00 35.48
ATOM   1777  CZ  TYR A 283      15.860  12.392   8.683  1.00 35.35
ATOM   1778  OH  TYR A 283      14.918  11.504   9.149  1.00 36.54
ATOM   1779  N   ASP A 284      16.665  17.299   9.043  1.00 30.23
ATOM   1780  CA  ASP A 284      16.026  17.638  10.312  1.00 28.41
ATOM   1781  C   ASP A 284      16.273  19.129  10.409  1.00 27.12
ATOM   1782  O   ASP A 284      15.309  19.953  10.305  1.00 25.19
ATOM   1783  CB  ASP A 284      16.684  16.928  11.494  1.00 33.07
ATOM   1784  CG  ASP A 284      16.035  17.283  12.813  1.00 33.49
ATOM   1785  DD1 ASP A 284      16.520  16.815  13.860  1.00 37.38
ATOM   1786  OD2 ASP A 284      15.035  18.031  12.802  1.00 35.95
ATOM   1787  N   LYS A 285      17.542  19.499  10.563  1.00 22.62
ATOM   1788  CA  LYS A 285      17.914  20.927  10.678  1.00 20.42
ATOM   1789  C   LYS A 285      19.420  21.145  10.812  1.00 19.89
ATOM   1790  O   LYS A 285      20.209  20.174  11.037  1.00 19.63
ATOM   1791  CB  LYS A 285      17.230  21.540  11.903  1.00 18.63
ATOM   1792  CG  LYS A 285      17.753  20.987  13.232  1.00 16.63
ATOM   1793  CD  LYS A 285      16.966  21.538  14.421  1.00 14.93
ATOM   1794  CE  LYS A 285      17.551  21.088  15.754  1.00 15.57
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FIG. 1CC

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ATOM   1795  NZ  LYS A 285      17.482  19.606  15.974  1.00 13.50
ATOM   1796  N   SER A 286      19.827  22.402  10.678  1.00 17.19
ATOM   1797  CA  SER A 286      21.241  22.808  10.827  1.00 16.52
ATOM   1798  C   SER A 286      21.228  24.034  11.727  1.00 15.74
ATOM   1799  O   SER A 286      20.592  25.080  11.377  1.00 14.46
ATOM   1800  CB  SER A 286      21.862  23.179   9.475  1.00 16.90
ATOM   1801  OG  SER A 286      22.064  22.036   8.671  1.00 16.60
ATOM   1802  N   ILE A 287      21.900  23.946  12.870  1.00 13.25
ATOM   1803  CA  ILE A 287      21.933  25.079  13.805  1.00 13.97
ATOM   1804  C   ILE A 287      23.342  25.511  14.206  1.00 15.14
ATOM   1805  O   ILE A 287      24.346  24.750  14.024  1.00 14.63
ATOM   1806  CB  ILE A 287      21.145  24.757  15.102  1.00 13.55
ATOM   1807  CG1 ILE A 287      21.898  23.717  15.929  1.00 12.52
ATOM   1808  CG2 ILE A 287      19.758  24.214  14.754  1.00 12.10
ATOM   1809  CD1 ILE A 287      21.274  23.455  17.283  1.00 14.43
ATOM   1810  N   VAL A 288      23.431  26.728  14.732  1.00 14.78
ATOM   1811  CA  VAL A 288      24.701  27.292  15.223  1.00 15.54
ATOM   1812  C   VAL A 288      24.510  27.262  16.733  1.00 16.05
ATOM   1813  O   VAL A 288      23.571  27.930  17.278  1.00 15.61
ATOM   1814  CB  VAL A 288      24.896  28.751  14.767  1.00 15.19
ATOM   1815  CG1 VAL A 288      26.248  29.259  15.239  1.00 14.78
ATOM   1816  CG2 VAL A 288      24.791  28.842  13.246  1.00 15.19
ATOM   1817  N   ASP A 289      25.355  26.512  17.430  1.00 15.91
ATOM   1818  CA  ASP A 289      25.194  26.373  18.891  1.00 14.81
ATOM   1819  C   ASP A 289      26.467  26.444  19.724  1.00 15.27
ATOM   1820  O   ASP A 289      27.322  25.504  19.700  1.00 15.75
ATOM   1821  CB  ASP A 289      24.467  25.060  19.168  1.00 12.65
ATOM   1822  CG  ASP A 289      24.264  24.806  20.634  1.00 13.29
ATOM   1823  OD1 ASP A 289      24.372  25.768  21.426  1.00 11.88
ATOM   1824  OD2 ASP A 289      23.981  23.639  20.988  1.00 10.63
ATOM   1825  N   SER A 290      26.604  27.529  20.479  1.00 15.19
ATOM   1826  CA  SER A 290      27.782  27.730  21.346  1.00 14.55
ATOM   1827  C   SER A 290      27.770  26.748  22.510  1.00 15.43
ATOM   1828  O   SER A 290      28.823  26.539  23.186  1.00 13.77
ATOM   1829  CB  SER A 290      27.795  29.165  21.888  1.00 15.33
ATOM   1830  OG  SER A 290      26.614  29.442  22.620  1.00 12.79
ATOM   1831  N   GLY A 291      26.612  26.137  22.759  1.00 14.34
ATOM   1832  CA  GLY A 291      26.486  25.192  23.856  1.00 14.93
ATOM   1833  C   GLY A 291      26.779  23.751  23.479  1.00 16.64
ATOM   1834  O   GLY A 291      26.502  22.792  24.277  1.00 14.49
ATOM   1835  N   THR A 292      27.305  23.556  22.277  1.00 16.47
ATOM   1836  CA  THR A 292      27.674  22.202  21.812  1.00 15.30
ATOM   1837  C   THR A 292      29.159  22.215  21.482  1.00 14.67
ATOM   1838  O   THR A 292      29.653  23.102  20.725  1.00 13.26
ATOM   1839  CB  THR A 292      26.889  21.784  20.550  1.00 15.29
ATOM   1840  OG1 THR A 292      25.522  21.521  20.895  1.00 13.88
ATOM   1841  CG2 THR A 292      27.514  20.527  19.932  1.00 13.59
ATOM   1842  N   THR A 293      29.887  21.253  22.027  1.00 14.43
ATOM   1843  CA  THR A 293      31.343  21.162  21.801  1.00 12.76
ATOM   1844  C   THR A 293      31.749  20.906  20.348  1.00 14.47
ATOM   1845  O   THR A 293      32.478  21.735  19.712  1.00 14.61
ATOM   1846  CB  THR A 293      31.949  20.035  22.650  1.00 12.36
ATOM   1847  OG1 THR A 293      31.726  20.304  24.041  1.00 10.79
ATOM   1848  CG2 THR A 293      33.437  19.916  22.382  1.00  9.56
ATOM   1849  N   ASN A 294      31.286  19.783  19.810  1.00 13.53
ATOM   1850  CA  ASN A 294      31.648  19.349  18.440  1.00 15.26
ATOM   1851  C   ASN A 294      30.871  19.917  17.276  1.00 15.45
ATOM   1852  O   ASN A 294      29.851  20.662  17.431  1.00 13.68
ATOM   1853  CB  ASN A 294      31.494  17.832  18.307  1.00 14.81
ATOM   1854  CG  ASN A 294      32.351  17.051  19.270  1.00 14.13
ATOM   1855  OD1 ASN A 294      32.264  15.791  19.304  1.00 19.85
ATOM   1856  ND2 ASN A 294      33.174  17.734  20.051  1.00 13.25
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FIG. 1DD

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ATOM   1857  N   LEU A 295      31.365  19.556  16.096  1.00 15.21
ATOM   1858  CA  LEU A 295      30.689  19.866  14.835  1.00 15.29
ATOM   1859  C   LEU A 295      29.924  18.548  14.719  1.00 16.43
ATOM   1860  O   LEU A 295      30.556  17.452  14.575  1.00 16.34
ATOM   1861  CB  LEU A 295      31.674  19.963  13.671  1.00 13.54
ATOM   1862  CG  LEU A 295      31.017  19.837  12.287  1.00 14.74
ATOM   1863  CD1 LEU A 295      29.991  20.947  12.109  1.00 14.37
ATOM   1864  CD2 LEU A 295      32.073  19.903  11.179  1.00 13.91
ATOM   1865  N   ARG A 296      28.606  18.591  14.831  1.00 16.08
ATOM   1866  CA  ARG A 296      27.827  17.349  14.719  1.00 17.47
ATOM   1867  C   ARG A 296      27.180  17.300  13.343  1.00 17.04
ATOM   1868  O   ARG A 296      26.655  18.339  12.840  1.00 15.28
ATOM   1869  CB  ARG A 296      26.785  17.290  15.834  1.00 18.37
ATOM   1870  CG  ARG A 296      27.421  17.444  17.208  1.00 19.73
ATOM   1871  CD  ARG A 296      26.425  17.262  18.324  1.00 22.63
ATOM   1872  NE  ARG A 296      26.292  15.867  18.722  1.00 25.23
ATOM   1873  CZ  ARG A 296      25.135  15.223  18.776  1.00 26.52
ATOM   1874  NH1 ARG A 296      24.011  15.851  18.446  1.00 27.11
ATOM   1875  NH2 ARG A 296      25.100  13.961  19.179  1.00 27.00
ATOM   1876  N   LEU A 297      27.211  16.123  12.722  1.00 15.65
ATOM   1877  CA  LEU A 297      26.660  15.945  11.356  1.00 15.33
ATOM   1878  C   LEU A 297      25.657  14.800  11.246  1.00 17.46
ATOM   1879  O   LEU A 297      25.795  13.743  11.938  1.00 16.37
ATOM   1880  CB  LEU A 297      27.806  15.681  10.371  1.00 12.00
ATOM   1881  CG  LEU A 297      28.925  16.729  10.277  1.00 11.84
ATOM   1882  CD1 LEU A 297      30.136  16.148   9.561  1.00  8.16
ATOM   1883  CD2 LEU A 297      28.410  17.962   9.559  1.00  8.99
ATOM   1884  N   PRO A 298      24.636  14.960  10.386  1.00 19.11
ATOM   1885  CA  PRO A 298      23.636  13.901  10.217  1.00 20.53
ATOM   1886  C   PRO A 298      24.387  12.619   9.868  1.00 21.03
ATOM   1887  O   PRO A 298      25.419  12.668   9.131  1.00 21.77
ATOM   1888  CB  PRO A 298      22.788  14.411   9.054  1.00 19.18
ATOM   1889  CG  PRO A 298      22.861  15.897   9.209  1.00 20.46
ATOM   1890  CD  PRO A 298      24.335  16.111   9.517  1.00 19.69
ATOM   1891  N   LYS A 299      23.911  11.487  10.376  1.00 22.77
ATOM   1892  CA  LYS A 299      24.562  10.169  10.137  1.00 25.34
ATOM   1893  C   LYS A 299      25.169   9.979   8.753  1.00 24.56
ATOM   1894  O   LYS A 299      26.393   9.681   8.617  1.00 22.24
ATOM   1895  CB  LYS A 299      23.566   9.034  10.387  1.00 29.05
ATOM   1896  CG  LYS A 299      24.156   7.650  10.146  1.00 33.27
ATOM   1897  CD  LYS A 299      23.144   6.547  10.408  1.00 37.10
ATOM   1898  CE  LYS A 299      23.758   5.178  10.151  1.00 38.78
ATOM   1899  NZ  LYS A 299      22.775   4.077  10.380  1.00 42.51
ATOM   1900  N   LYS A 300      24.340  10.127   7.729  1.00 24.24
ATOM   1901  CA  LYS A 300      24.774   9.955   6.333  1.00 25.41
ATOM   1902  C   LYS A 300      25.901  10.916   5.952  1.00 24.12
ATOM   1903  O   LYS A 300      26.889  10.515   5.262  1.00 23.67
ATOM   1904  CB  LYS A 300      23.576  10.154   5.403  1.00 28.77
ATOM   1905  CG  LYS A 300      23.788   9.660   3.990  1.00 33.37
ATOM   1906  CD  LYS A 300      22.661   8.718   3.569  1.00 38.01
ATOM   1907  CE  LYS A 300      21.298   9.393   3.652  1.00 40.18
ATOM   1908  NZ  LYS A 300      20.191   8.455   3.291  1.00 42.69
ATOM   1909  N   VAL A 301      25.784  12.172   6.368  1.00 20.46
ATOM   1910  CA  VAL A 301      26.832  13.169   6.058  1.00 18.21
ATOM   1911  C   VAL A 301      28.083  12.842   6.867  1.00 17.93
ATOM   1912  O   VAL A 301      29.241  12.929   6.343  1.00 16.84
ATOM   1913  CB  VAL A 301      26.358  14.601   6.391  1.00 17.29
ATOM   1914  CG1 VAL A 301      27.468  15.605   6.105  1.00 15.43
ATOM   1915  CG2 VAL A 301      25.118  14.935   5.565  1.00 16.34
ATOM   1916  N   PHE A 302      27.887  12.448   8.122  1.00 17.43
ATOM   1917  CA  PHE A 302      29.032  12.099   8.990  1.00 18.16
ATOM   1918  C   PHE A 302      29.854  10.957   8.399  1.00 18.95
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FIG. 1EE

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ATOM   1919  O   PHE A 302      31.121  11.004   8.399  1.00 18.60
ATOM   1920  CB  PHE A 302      28.550  11.713  10.391  1.00 17.38
ATOM   1921  CG  PHE A 302      29.639  11.180  11.265  1.00 19.16
ATOM   1922  CD1 PHE A 302      29.866   9.810  11.362  1.00 17.81
ATOM   1923  CD2 PHE A 302      30.498  12.051  11.923  1.00 18.89
ATOM   1924  CE1 PHE A 302      30.934   9.320  12.096  1.00 19.63
ATOM   1925  CE2 PHE A 302      31.573  11.569  12.660  1.00 19.90
ATOM   1926  CZ  PHE A 302      31.793  10.201  12.747  1.00 19.13
ATOM   1927  N   GLU A 303      29.172   9.931   7.901  1.00 19.20
ATOM   1928  CA  GLU A 303      29.859   8.769   7.295  1.00 21.56
ATOM   1929  C   GLU A 303      30.679   9.189   6.083  1.00 19.19
ATOM   1930  O   GLU A 303      31.865   8.777   5.929  1.00 18.04
ATOM   1931  CB  GLU A 303      28.836   7.704   6.888  1.00 24.72
ATOM   1932  CG  GLU A 303      28.246   6.939   8.069  1.00 29.90
ATOM   1933  CD  GLU A 303      27.051   6.076   7.683  1.00 33.77
ATOM   1934  OE1 GLU A 303      26.585   5.294   8.541  1.00 36.31
ATOM   1935  OE2 GLU A 303      26.572   6.183   6.528  1.00 36.51
ATOM   1936  N   ALA A 304      30.088   9.998   5.216  1.00 17.86
ATOM   1937  CA  ALA A 304      30.805  10.472   4.007  1.00 18.11
ATOM   1938  C   ALA A 304      31.999  11.354   4.386  1.00 17.49
ATOM   1939  O   ALA A 304      33.102  11.242   3.777  1.00 17.76
ATOM   1940  CB  ALA A 304      29.849  11.244   3.102  1.00 17.14
ATOM   1941  N   ALA A 305      31.812  12.221   5.377  1.00 17.06
ATOM   1942  CA  ALA A 305      32.900  13.128   5.829  1.00 16.43
ATOM   1943  C   ALA A 305      34.092  12.387   6.440  1.00 16.39
ATOM   1944  O   ALA A 305      35.272  12.644   6.054  1.00 17.78
ATOM   1945  CB  ALA A 305      32.351  14.140   6.833  1.00 15.92
ATOM   1946  N   VAL A 306      33.842  11.476   7.375  1.00 15.50
ATOM   1947  CA  VAL A 306      34.971  10.756   8.004  1.00 17.31
ATOM   1948  C   VAL A 306      35.719   9.920   6.987  1.00 16.95
ATOM   1949  O   VAL A 306      36.983   9.829   7.029  1.00 16.21
ATOM   1950  CB  VAL A 306      34.514   9.845   9.162  1.00 17.93
ATOM   1951  CG1 VAL A 306      33.954  10.693  10.280  1.00 19.37
ATOM   1952  CG2 VAL A 306      33.477   8.851   8.669  1.00 19.63
ATOM   1953  N   LYS A 307      34.987   9.307   6.065  1.00 17.11
ATOM   1954  CA  LYS A 307      35.641   8.488   5.032  1.00 18.39
ATOM   1955  C   LYS A 307      36.654   9.350   4.279  1.00 17.59
ATOM   1956  O   LYS A 307      37.848   8.959   4.107  1.00 18.09
ATOM   1957  CB  LYS A 307      34.602   7.940   4.052  1.00 19.72
ATOM   1958  CG  LYS A 307      35.212   7.112   2.930  1.00 24.02
ATOM   1959  CD  LYS A 307      34.147   6.415   2.102  1.00 26.72
ATOM   1960  CE  LYS A 307      34.779   5.505   1.058  1.00 29.36
ATOM   1961  NZ  LYS A 307      33.745   4.869   0.193  1.00 31.68
ATOM   1962  N   SER A 308      36.205  10.520   3.842  1.00 16.75
ATOM   1963  CA  SER A 308      37.059  11.460   3.091  1.00 17.46
ATOM   1964  C   SER A 308      38.198  12.000   3.953  1.00 16.11
ATOM   1965  O   SER A 308      39.378  12.056   3.501  1.00 17.12
ATOM   1966  CB  SER A 308      36.208  12.620   2.560  1.00 17.51
ATOM   1967  OG  SER A 308      36.982  13.505   1.774  1.00 19.76
ATOM   1968  N   ILE A 309      37.886  12.400   5.180  1.00 16.07
ATOM   1969  CA  ILE A 309      38.926  12.927   6.083  1.00 14.41
ATOM   1970  C   ILE A 309      39.945  11.831   6.378  1.00 14.93
ATOM   1971  O   ILE A 309      41.171  12.112   6.505  1.00 14.90
ATOM   1972  CB  ILE A 309      38.310  13.439   7.401  1.00 13.88
ATOM   1973  CG1 ILE A 309      37.346  14.595   7.099  1.00 13.08
ATOM   1974  CG2 ILE A 309      39.404  13.887   8.350  1.00 11.40
ATOM   1975  CD1 ILE A 309      36.575  15.084   8.315  1.00 12.70
ATOM   1976  N   LYS A 310      39.475  10.592   6.485  1.00 15.62
ATOM   1977  CA  LYS A 310      40.375   9.437   6.752  1.00 17.74
ATOM   1978  C   LYS A 310      41.289   9.223   5.559  1.00 17.22
ATOM   1979  O   LYS A 310      42.532   9.061   5.715  1.00 16.87
ATOM   1980  CB  LYS A 310      39.577   8.149   6.976  1.00 18.35
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FIG. 1FF

ATOM	1981	CG	LYS	A	310	39.003	7.953	8.373	1.00 20.85
ATOM	1982	CD	LYS	A	310	38.269	6.617	8.432	1.00 22.02
ATOM	1983	CE	LYS	A	310	37.584	6.404	9.757	1.00 25.26
ATOM	1984	NZ	LYS	A	310	36.808	5.129	9.752	1.00 26.15
ATOM	1985	N	ALA	A	311	40.698	9.211	4.370	1.00 15.56
ATOM	1986	CA	ALA	A	311	41.466	9.007	3.124	1.00 17.77
ATOM	1987	C	ALA	A	311	42.549	10.071	2.990	1.00 17.36
ATOM	1988	O	ALA	A	311	43.708	9.768	2.578	1.00 20.71
ATOM	1989	CB	ALA	A	311	40.524	9.047	1.908	1.00 14.11
ATOM	1990	N	ALA	A	312	42.210	11.309	3.330	1.00 16.63
ATOM	1991	CA	ALA	A	312	43.184	12.418	3.235	1.00 15.73
ATOM	1992	C	ALA	A	312	44.247	12.342	4.333	1.00 15.59
ATOM	1993	O	ALA	A	312	45.348	12.958	4.207	1.00 13.09
ATOM	1994	CB	ALA	A	312	42.449	13.758	3.301	1.00 13.50
ATOM	1995	N	SER	A	313	43.950	11.593	5.393	1.00 17.05
ATOM	1996	CA	SER	A	313	44.867	11.432	6.560	1.00 19.05
ATOM	1997	C	SER	A	313	45.579	10.085	6.593	1.00 19.49
ATOM	1998	O	SER	A	313	46.332	9.787	7.568	1.00 21.95
ATOM	1999	CB	SER	A	313	44.075	11.555	7.865	1.00 17.23
ATOM	2000	OG	SER	A	313	43.501	12.834	8.003	1.00 23.58
ATOM	2001	N	SER	A	314	45.368	9.270	5.570	1.00 20.76
ATOM	2002	CA	SER	A	314	45.952	7.909	5.513	1.00 22.73
ATOM	2003	C	SER	A	314	47.436	7.725	5.838	1.00 21.90
ATOM	2004	O	SER	A	314	47.825	6.639	6.359	1.00 20.76
ATOM	2005	CB	SER	A	314	45.650	7.271	4.150	1.00 22.50
ATOM	2006	OG	SER	A	314	46.207	8.032	3.093	1.00 27.94
ATOM	2007	N	THR	A	315	48.285	8.714	5.570	1.00 20.90
ATOM	2008	CA	THR	A	315	49.732	8.523	5.868	1.00 23.78
ATOM	2009	C	THR	A	315	50.020	8.454	7.361	1.00 25.42
ATOM	2010	O	THR	A	315	51.191	8.219	7.784	1.00 26.24
ATOM	2011	CB	THR	A	315	50.616	9.634	5.257	1.00 23.59
ATOM	2012	OG1	THR	A	315	50.256	10.901	5.818	1.00 22.73
ATOM	2013	CG2	THR	A	315	50.456	9.668	3.745	1.00 22.59
ATOM	2014	N	GLU	A	316	48.994	8.655	8.176	1.00 27.46
ATOM	2015	CA	GLU	A	316	49.170	8.589	9.638	1.00 29.81
ATOM	2016	C	GLU	A	316	48.258	7.503	10.201	1.00 30.55
ATOM	2017	O	GLU	A	316	47.110	7.314	9.710	1.00 29.51
ATOM	2018	CB	GLU	A	316	48.819	9.931	10.279	1.00 32.51
ATOM	2019	CG	GLU	A	316	49.277	10.039	11.725	1.00 36.72
ATOM	2020	CD	GLU	A	316	50.571	10.818	11.879	1.00 36.99
ATOM	2021	OE1	GLU	A	316	51.456	10.728	11.003	1.00 37.39
ATOM	2022	OE2	GLU	A	316	50.704	11.522	12.893	1.00 41.14
ATOM	2023	N	LYS	A	317	48.736	6.775	11.205	1.00 32.69
ATOM	2024	CA	LYS	A	317	47.928	5.702	11.828	1.00 35.09
ATOM	2025	C	LYS	A	317	47.216	6.223	13.071	1.00 33.44
ATOM	2026	O	LYS	A	317	47.804	7.005	13.883	1.00 34.13
ATOM	2027	CB	LYS	A	317	48.809	4.505	12.202	1.00 38.52
ATOM	2028	CG	LYS	A	317	49.980	4.844	13.106	1.00 43.41
ATOM	2029	CD	LYS	A	317	50.665	3.588	13.638	1.00 46.99
ATOM	2030	CE	LYS	A	317	51.165	2.686	12.514	1.00 48.65
ATOM	2031	NZ	LYS	A	317	51.731	1.410	13.043	1.00 49.49
ATOM	2032	N	PHE	A	318	45.965	5.818	13.245	1.00 31.00
ATOM	2033	CA	PHE	A	318	45.188	6.272	14.408	1.00 30.33
ATOM	2034	C	PHE	A	318	44.683	5.120	15.263	1.00 30.57
ATOM	2035	O	PHE	A	318	44.171	4.088	14.732	1.00 29.80
ATOM	2036	CB	PHE	A	318	44.014	7.135	13.944	1.00 28.83
ATOM	2037	CG	PHE	A	318	44.436	8.367	13.197	1.00 28.31
ATOM	2038	CD1	PHE	A	318	44.625	8.333	11.817	1.00 27.09
ATOM	2039	CD2	PHE	A	318	44.686	9.554	13.879	1.00 27.59
ATOM	2040	CE1	PHE	A	318	45.060	9.466	11.130	1.00 27.37
ATOM	2041	CE2	PHE	A	318	45.122	10.691	13.200	1.00 26.98
ATOM	2042	CZ	PHE	A	318	45.309	10.648	11.826	1.00 27.12

FIG. 1GG

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ATOM   2043  N   PRO A 319      44.805   5.252  16.591  1.00 30.02
ATOM   2044  CA  PRO A 319      44.361   4.222  17.535  1.00 30.20
ATOM   2045  C   PRO A 319      42.864   3.977  17.460  1.00 29.88
ATOM   2046  O   PRO A 319      42.087   4.882  17.040  1.00 29.27
ATOM   2047  CB  PRO A 319      44.777   4.793  18.890  1.00 30.49
ATOM   2048  CG  PRO A 319      44.667   6.276  18.674  1.00 31.99
ATOM   2049  CD  PRO A 319      45.308   6.437  17.309  1.00 30.77
ATOM   2050  N   ASP A 320      42.449   2.779  17.860  1.00 30.08
ATOM   2051  CA  ASP A 320      41.018   2.389  17.867  1.00 29.79
ATOM   2052  C   ASP A 320      40.183   3.406  18.652  1.00 28.71
ATOM   2053  O   ASP A 320      40.560   3.804  19.804  1.00 27.90
ATOM   2054  CB  ASP A 320      40.855   1.009  18.520  1.00 31.81
ATOM   2055  CG  ASP A 320      41.545  -0.104  17.740  1.00 34.27
ATOM   2056  OD1 ASP A 320      41.787  -1.182  18.331  1.00 34.13
ATOM   2057  OD2 ASP A 320      41.833   0.092  16.538  1.00 35.41
ATOM   2058  N   GLY A 321      39.067   3.837  18.068  1.00 26.34
ATOM   2059  CA  GLY A 321      38.193   4.781  18.745  1.00 24.91
ATOM   2060  C   GLY A 321      38.439   6.259  18.490  1.00 23.96
ATOM   2061  O   GLY A 321      37.632   7.129  18.941  1.00 23.66
ATOM   2062  N   PHE A 322      39.519   6.591  17.793  1.00 22.07
ATOM   2063  CA  PHE A 322      39.810   8.011  17.507  1.00 20.41
ATOM   2064  C   PHE A 322      38.705   8.670  16.684  1.00 20.53
ATOM   2065  O   PHE A 322      38.157   9.743  17.078  1.00 20.75
ATOM   2066  CB  PHE A 322      41.126   8.157  16.747  1.00 19.07
ATOM   2067  CG  PHE A 322      41.405   9.567  16.306  1.00 19.05
ATOM   2068  CD1 PHE A 322      41.701  10.555  17.240  1.00 17.04
ATOM   2069  CD2 PHE A 322      41.326   9.918  14.960  1.00 17.20
ATOM   2070  CE1 PHE A 322      41.912  11.872  16.840  1.00 18.99
ATOM   2071  CE2 PHE A 322      41.535  11.229  14.552  1.00 17.99
ATOM   2072  CZ  PHE A 322      41.829  12.210  15.494  1.00 16.28
ATOM   2073  N   TRP A 323      38.367   8.063  15.552  1.00 20.75
ATOM   2074  CA  TRP A 323      37.330   8.622  14.664  1.00 22.37
ATOM   2075  C   TRP A 323      35.940   8.626  15.273  1.00 23.50
ATOM   2076  O   TRP A 323      35.036   9.379  14.804  1.00 22.84
ATOM   2077  CB  TRP A 323      37.322   7.872  13.335  1.00 21.45
ATOM   2078  CG  TRP A 323      38.643   7.924  12.664  1.00 20.71
ATOM   2079  CD1 TRP A 323      39.566   6.921  12.594  1.00 20.50
ATOM   2080  CD2 TRP A 323      39.217   9.049  11.986  1.00 20.31
ATOM   2081  NE1 TRP A 323      40.679   7.349  11.913  1.00 20.18
ATOM   2082  CE2 TRP A 323      40.492   8.651  11.527  1.00 20.95
ATOM   2083  CE3 TRP A 323      38.778  10.354  11.722  1.00 20.80
ATOM   2084  CZ2 TRP A 323      41.337   9.511  10.816  1.00 20.49
ATOM   2085  CZ3 TRP A 323      39.618  11.212  11.013  1.00 21.58
ATOM   2086  CH2 TRP A 323      40.885  10.784  10.569  1.00 21.15
ATOM   2087  N   LEU A 324      35.734   7.810  16.300  1.00 26.13
ATOM   2088  CA  LEU A 324      34.428   7.772  16.983  1.00 27.96
ATOM   2089  C   LEU A 324      34.417   8.877  18.040  1.00 29.09
ATOM   2090  O   LEU A 324      33.413   9.044  18.799  1.00 29.23
ATOM   2091  CB  LEU A 324      34.202   6.408  17.642  1.00 29.11
ATOM   2092  CG  LEU A 324      33.910   5.236  16.697  1.00 30.04
ATOM   2093  CD1 LEU A 324      33.791   3.948  17.501  1.00 30.31
ATOM   2094  CD2 LEU A 324      32.625   5.499  15.924  1.00 29.47
ATOM   2095  N   GLY A 325      35.513   9.634  18.098  1.00 29.34
ATOM   2096  CA  GLY A 325      35.632  10.728  19.048  1.00 30.68
ATOM   2097  C   GLY A 325      35.794  10.280  20.489  1.00 31.19
ATOM   2098  O   GLY A 325      35.687  11.109  21.442  1.00 31.53
ATOM   2099  N   GLU A 326      36.067   8.995  20.683  1.00 32.22
ATOM   2100  CA  GLU A 326      36.225   8.436  22.042  1.00 34.09
ATOM   2101  C   GLU A 326      37.655   8.482  22.563  1.00 33.56
ATOM   2102  O   GLU A 326      37.907   8.933  23.720  1.00 34.19
ATOM   2103  CB  GLU A 326      35.728   6.992  22.062  1.00 35.56
ATOM   2104  CG  GLU A 326      34.267   6.847  21.683  1.00 38.03
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FIG. 1HH

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ATOM   2105  CD  GLU A 326      33.855   5.401  21.494  1.00 40.36
ATOM   2106  OE1 GLU A 326      32.662   5.162  21.207  1.00 41.84
ATOM   2107  OE2 GLU A 326      34.720   4.506  21.626  1.00 42.10
ATOM   2108  N   GLN A 327      38.602   8.031  21.750  1.00 32.81
ATOM   2109  CA  GLN A 327      40.009   8.017  22.178  1.00 31.36
ATOM   2110  C   GLN A 327      40.844   9.142  21.608  1.00 30.14
ATOM   2111  O   GLN A 327      40.612   9.626  20.458  1.00 28.97
ATOM   2112  CB  GLN A 327      40.650   6.667  21.842  1.00 34.41
ATOM   2113  CG  GLN A 327      40.770   5.749  23.060  1.00 38.96
ATOM   2114  CD  GLN A 327      39.443   5.546  23.778  1.00 40.61
ATOM   2115  OE1 GLN A 327      39.410   5.223  25.002  1.00 42.73
ATOM   2116  NE2 GLN A 327      38.344   5.714  23.053  1.00 42.75
ATOM   2117  N   LEU A 328      41.814   9.581  22.394  1.00 28.01
ATOM   2118  CA  LEU A 328      42.695  10.663  21.964  1.00 28.64
ATOM   2119  C   LEU A 328      43.889  10.100  21.219  1.00 27.50
ATOM   2120  O   LEU A 328      44.207   8.873  21.317  1.00 27.23
ATOM   2121  CB  LEU A 328      43.177  11.467  23.180  1.00 29.39
ATOM   2122  CG  LEU A 328      43.924  10.735  24.304  1.00 31.09
ATOM   2123  CD1 LEU A 328      45.298  10.283  23.831  1.00 31.75
ATOM   2124  CD2 LEU A 328      44.074  11.669  25.498  1.00 31.12
ATOM   2125  N   VAL A 329      44.539  10.961  20.449  1.00 25.26
ATOM   2126  CA  VAL A 329      45.748  10.583  19.722  1.00 23.64
ATOM   2127  C   VAL A 329      46.779  11.593  20.203  1.00 23.76
ATOM   2128  O   VAL A 329      46.431  12.786  20.476  1.00 21.96
ATOM   2129  CB  VAL A 329      45.560  10.675  18.194  1.00 23.82
ATOM   2130  CG1 VAL A 329      45.100  12.070  17.794  1.00 23.64
ATOM   2131  CG2 VAL A 329      46.866  10.317  17.501  1.00 23.70
ATOM   2132  N   CYS A 330      48.025  11.157  20.344  1.00 23.69
ATOM   2133  CA  CYS A 330      49.088  12.046  20.830  1.00 24.17
ATOM   2134  C   CYS A 330      50.315  12.060  19.937  1.00 23.87
ATOM   2135  O   CYS A 330      50.592  11.089  19.165  1.00 24.32
ATOM   2136  CB  CYS A 330      49.548  11.633  22.228  1.00 24.93
ATOM   2137  SG  CYS A 330      48.353  11.638  23.608  1.00 29.07
ATOM   2138  N   TRP A 331      51.069  13.144  20.047  1.00 22.66
ATOM   2139  CA  TRP A 331      52.306  13.318  19.281  1.00 22.40
ATOM   2140  C   TRP A 331      53.333  13.972  20.177  1.00 22.22
ATOM   2141  O   TRP A 331      52.979  14.698  21.154  1.00 21.57
ATOM   2142  CB  TRP A 331      52.069  14.207  18.064  1.00 21.16
ATOM   2143  CG  TRP A 331      51.345  13.524  16.959  1.00 19.61
ATOM   2144  CD1 TRP A 331      51.868  12.634  16.067  1.00 18.33
ATOM   2145  CD2 TRP A 331      49.966  13.684  16.606  1.00 18.42
ATOM   2146  NE1 TRP A 331      50.902  12.233  15.177  1.00 17.37
ATOM   2147  CE2 TRP A 331      49.721  12.862  15.488  1.00 18.60
ATOM   2148  CE3 TRP A 331      48.911  14.446  17.130  1.00 19.20
ATOM   2149  CZ2 TRP A 331      48.467  12.778  14.874  1.00 17.86
ATOM   2150  CZ3 TRP A 331      47.659  14.364  16.521  1.00 19.94
ATOM   2151  CH2 TRP A 331      47.450  13.535  15.406  1.00 19.08
ATOM   2152  N   GLN A 332      54.598  13.730  19.873  1.00 23.04
ATOM   2153  CA  GLN A 332      55.689  14.321  20.648  1.00 25.14
ATOM   2154  C   GLN A 332      55.490  15.836  20.594  1.00 23.64
ATOM   2155  O   GLN A 332      55.066  16.397  19.533  1.00 23.11
ATOM   2156  CB  GLN A 332      57.020  13.937  20.015  1.00 27.80
ATOM   2157  CG  GLN A 332      58.171  13.877  20.982  1.00 33.30
ATOM   2158  CD  GLN A 332      59.450  13.445  20.305  1.00 35.55
ATOM   2159  OE1 GLN A 332      60.060  14.224  19.507  1.00 36.94
ATOM   2160  NE2 GLN A 332      59.879  12.217  20.579  1.00 36.57
ATOM   2161  N   ALA A 333      55.778  16.506  21.704  1.00 22.79
ATOM   2162  CA  ALA A 333      55.618  17.977  21.820  1.00 21.04
ATOM   2163  C   ALA A 333      55.936  18.759  20.552  1.00 19.77
ATOM   2164  O   ALA A 333      57.076  18.671  19.997  1.00 19.85
ATOM   2165  CB  ALA A 333      56.475  18.499  22.971  1.00 21.00
ATOM   2166  N   GLY A 334      54.949  19.515  20.083  1.00 17.64
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FIG. 1II

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ATOM   2167  CA  GLY A 334      55.123  20.340  18.903  1.00 16.89
ATOM   2168  C   GLY A 334      55.205  19.663  17.548  1.00 17.61
ATOM   2169  O   GLY A 334      55.403  20.370  16.512  1.00 17.50
ATOM   2170  N   THR A 335      55.060  18.343  17.490  1.00 16.55
ATOM   2171  CA  THR A 335      55.146  17.648  16.182  1.00 17.58
ATOM   2172  C   THR A 335      53.802  17.260  15.557  1.00 16.83
ATOM   2173  O   THR A 335      53.761  16.408  14.618  1.00 17.71
ATOM   2174  CB  THR A 335      56.017  16.377  16.275  1.00 17.76
ATOM   2175  OG1 THR A 335      55.361  15.401  17.095  1.00 17.56
ATOM   2176  CG2 THR A 335      57.373  16.710  16.884  1.00 17.23
ATOM   2177  N   THR A 336      52.707  17.842  16.037  1.00 16.75
ATOM   2178  CA  THR A 336      51.373  17.527  15.460  1.00 16.56
ATOM   2179  C   THR A 336      51.473  17.752  13.952  1.00 16.24
ATOM   2180  O   THR A 336      51.821  18.868  13.487  1.00 16.30
ATOM   2181  CB  THR A 336      50.267  18.437  16.030  1.00 17.05
ATOM   2182  OG1 THR A 336      50.181  18.255  17.451  1.00 17.15
ATOM   2183  CG2 THR A 336      48.917  18.096  15.401  1.00 16.72
ATOM   2184  N   PRO A 337      51.182  16.718  13.157  1.00 15.50
ATOM   2185  CA  PRO A 337      51.254  16.820  11.699  1.00 14.87
ATOM   2186  C   PRO A 337      50.006  17.444  11.082  1.00 14.56
ATOM   2187  O   PRO A 337      49.310  16.800  10.249  1.00 14.49
ATOM   2188  CB  PRO A 337      51.448  15.369  11.281  1.00 15.18
ATOM   2189  CG  PRO A 337      50.520  14.657  12.238  1.00 16.05
ATOM   2190  CD  PRO A 337      50.784  15.359  13.572  1.00 15.54
ATOM   2191  N   TRP A 338      49.713  18.682  11.470  1.00 14.89
ATOM   2192  CA  TRP A 338      48.535  19.415  10.956  1.00 14.85
ATOM   2193  C   TRP A 338      48.339  19.304   9.445  1.00 14.87
ATOM   2194  O   TRP A 338      47.194  19.048   8.966  1.00 17.13
ATOM   2195  CB  TRP A 338      48.639  20.899  11.313  1.00 13.77
ATOM   2196  CG  TRP A 338      48.784  21.176  12.767  1.00 15.11
ATOM   2197  CD1 TRP A 338      49.897  21.652  13.411  1.00 14.78
ATOM   2198  CD2 TRP A 338      47.780  21.011  13.771  1.00 14.17
ATOM   2199  NE1 TRP A 338      49.641  21.794  14.756  1.00 14.64
ATOM   2200  CE2 TRP A 338      48.348  21.407  15.003  1.00 14.35
ATOM   2201  CE3 TRP A 338      46.451  20.566  13.751  1.00 14.31
ATOM   2202  CZ2 TRP A 338      47.635  21.371  16.202  1.00 14.86
ATOM   2203  CZ3 TRP A 338      45.744  20.530  14.945  1.00 16.02
ATOM   2204  CH2 TRP A 338      46.339  20.932  16.154  1.00 14.77
ATOM   2205  N   ASN A 339      49.414  19.486   8.682  1.00 13.22
ATOM   2206  CA  ASN A 339      49.319  19.449   7.203  1.00 12.87
ATOM   2207  C   ASN A 339      48.674  18.208   6.608  1.00 12.01
ATOM   2208  O   ASN A 339      48.061  18.288   5.508  1.00 13.99
ATOM   2209  CB  ASN A 339      50.699  19.649   6.552  1.00 12.61
ATOM   2210  CG  ASN A 339      51.576  18.404   6.627  1.00 15.28
ATOM   2211  OD1 ASN A 339      52.290  18.174   7.648  1.00 16.29
ATOM   2212  ND2 ASN A 339      51.541  17.584   5.578  1.00 12.93
ATOM   2213  N   ILE A 340      48.774  17.064   7.276  1.00 12.88
ATOM   2214  CA  ILE A 340      48.171  15.831   6.698  1.00 12.98
ATOM   2215  C   ILE A 340      46.655  15.864   6.794  1.00 12.80
ATOM   2216  O   ILE A 340      45.944  15.237   5.959  1.00 12.80
ATOM   2217  CB  ILE A 340      48.667  14.545   7.400  1.00 14.79
ATOM   2218  CG1 ILE A 340      48.142  14.512   8.833  1.00 14.91
ATOM   2219  CG2 ILE A 340      50.194  14.483   7.372  1.00 12.38
ATOM   2220  CD1 ILE A 340      48.177  13.142   9.454  1.00 17.42
ATOM   2221  N   PHE A 341      46.138  16.577   7.790  1.00 13.19
ATOM   2222  CA  PHE A 341      44.677  16.689   7.972  1.00 13.87
ATOM   2223  C   PHE A 341      44.143  17.741   7.006  1.00 13.37
ATOM   2224  O   PHE A 341      44.787  18.812   6.798  1.00 12.72
ATOM   2225  CB  PHE A 341      44.354  17.087   9.410  1.00 13.10
ATOM   2226  CG  PHE A 341      44.685  16.027  10.429  1.00 13.55
ATOM   2227  CD1 PHE A 341      43.817  14.960  10.654  1.00 13.48
ATOM   2228  CD2 PHE A 341      45.861  16.104  11.171  1.00 12.12
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FIG. 1JJ

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ATOM   2229  CE1 PHE A 341      44.115  13.984  11.607  1.00 13.44
ATOM   2230  CE2 PHE A 341      46.172  15.136  12.127  1.00 14.31
ATOM   2231  CZ  PHE A 341      45.298  14.074  12.346  1.00 13.92
ATOM   2232  N   PRO A 342      42.975  17.484   6.402  1.00 12.78
ATOM   2233  CA  PRO A 342      42.357  18.413   5.448  1.00 12.17
ATOM   2234  C   PRO A 342      41.565  19.544   6.100  1.00 12.90
ATOM   2235  O   PRO A 342      41.168  19.465   7.309  1.00 12.52
ATOM   2236  CB  PRO A 342      41.447  17.502   4.638  1.00 10.18
ATOM   2237  CG  PRO A 342      40.920  16.570   5.714  1.00 11.48
ATOM   2238  CD  PRO A 342      42.180  16.244   6.523  1.00 12.10
ATOM   2239  N   VAL A 343      41.342  20.609   5.342  1.00 12.27
ATOM   2240  CA  VAL A 343      40.528  21.712   5.851  1.00 10.51
ATOM   2241  C   VAL A 343      39.101  21.281   5.521  1.00 12.41
ATOM   2242  O   VAL A 343      38.878  20.401   4.632  1.00 10.45
ATOM   2243  CB  VAL A 343      40.838  23.054   5.143  1.00 10.23
ATOM   2244  CG1 VAL A 343      42.247  23.507   5.488  1.00  8.58
ATOM   2245  CG2 VAL A 343      40.672  22.914   3.636  1.00  8.08
ATOM   2246  N   ILE A 344      38.132  21.848   6.224  1.00 13.49
ATOM   2247  CA  ILE A 344      36.725  21.507   5.991  1.00 13.17
ATOM   2248  C   ILE A 344      35.989  22.789   5.664  1.00 13.33
ATOM   2249  O   ILE A 344      36.067  23.795   6.427  1.00 13.12
ATOM   2250  CB  ILE A 344      36.099  20.859   7.246  1.00 14.77
ATOM   2251  CG1 ILE A 344      36.776  19.512   7.517  1.00 14.50
ATOM   2252  CG2 ILE A 344      34.585  20.702   7.060  1.00 13.14
ATOM   2253  CD1 ILE A 344      36.374  18.875   8.825  1.00 17.73
ATOM   2254  N   SER A 345      35.292  22.794   4.537  1.00 12.41
ATOM   2255  CA  SER A 345      34.547  23.982   4.136  1.00 13.41
ATOM   2256  C   SER A 345      33.051  23.723   4.172  1.00 14.94
ATOM   2257  O   SER A 345      32.555  22.641   3.721  1.00 14.55
ATOM   2258  CB  SER A 345      34.967  24.430   2.728  1.00 14.23
ATOM   2259  OG  SER A 345      36.329  24.834   2.703  1.00 13.57
ATOM   2260  N   LEU A 346      32.320  24.682   4.725  1.00 13.42
ATOM   2261  CA  LEU A 346      30.859  24.594   4.796  1.00 14.08
ATOM   2262  C   LEU A 346      30.320  25.772   4.003  1.00 13.86
ATOM   2263  O   LEU A 346      30.681  26.956   4.286  1.00 13.52
ATOM   2264  CB  LEU A 346      30.383  24.674   6.252  1.00 15.83
ATOM   2265  CG  LEU A 346      30.239  23.372   7.051  1.00 17.74
ATOM   2266  CD1 LEU A 346      31.455  22.492   6.875  1.00 18.92
ATOM   2267  CD2 LEU A 346      30.028  23.711   8.521  1.00 19.69
ATOM   2268  N   TYR A 347      29.496  25.485   3.000  1.00 13.48
ATOM   2269  CA  TYR A 347      28.894  26.543   2.176  1.00 13.76
ATOM   2270  C   TYR A 347      27.525  26.864   2.745  1.00 14.58
ATOM   2271  O   TYR A 347      26.676  25.948   2.979  1.00 13.16
ATOM   2272  CB  TYR A 347      28.757  26.101   0.716  1.00 14.82
ATOM   2273  CG  TYR A 347      30.066  26.051  -0.034  1.00 15.10
ATOM   2274  CD1 TYR A 347      31.022  25.074   0.252  1.00 13.97
ATOM   2275  CD2 TYR A 347      30.349  26.977  -1.038  1.00 13.98
ATOM   2276  CE1 TYR A 347      32.228  25.018  -0.447  1.00 14.47
ATOM   2277  CE2 TYR A 347      31.556  26.930  -1.746  1.00 15.69
ATOM   2278  CZ  TYR A 347      32.487  25.949  -1.445  1.00 15.09
ATOM   2279  OH  TYR A 347      33.672  25.895  -2.141  1.00 16.72
ATOM   2280  N   LEU A 348      27.288  28.145   2.971  1.00 13.86
ATOM   2281  CA  LEU A 348      26.018  28.593   3.545  1.00 16.70
ATOM   2282  C   LEU A 348      25.246  29.445   2.559  1.00 17.37
ATOM   2283  O   LEU A 348      25.856  30.183   1.722  1.00 16.05
ATOM   2284  CB  LEU A 348      26.292  29.401   4.814  1.00 15.57
ATOM   2285  CG  LEU A 348      27.019  28.620   5.908  1.00 17.10
ATOM   2286  CD1 LEU A 348      27.518  29.565   6.985  1.00 15.71
ATOM   2287  CD2 LEU A 348      26.078  27.580   6.495  1.00 16.92
ATOM   2288  N   MET A 349      23.922  29.352   2.617  1.00 19.68
ATOM   2289  CA  MET A 349      23.073  30.167   1.734  1.00 22.78
ATOM   2290  C   MET A 349      23.384  31.629   2.024  1.00 22.03
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FIG. 1KK

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ATOM   2291  O   MET A 349      23.478  32.049   3.222  1.00 20.70
ATOM   2292  CB  MET A 349      21.594  29.897   2.008  1.00 25.40
ATOM   2293  CG  MET A 349      20.931  28.954   1.012  1.00 31.18
ATOM   2294  SD  MET A 349      19.139  28.833   1.272  1.00 37.43
ATOM   2295  CE  MET A 349      18.697  30.583   1.318  1.00 32.73
ATOM   2296  N   GLY A 350      23.573  32.414   0.972  1.00 20.81
ATOM   2297  CA  GLY A 350      23.857  33.824   1.167  1.00 23.50
ATOM   2298  C   GLY A 350      22.565  34.612   1.280  1.00 24.26
ATOM   2299  O   GLY A 350      21.450  34.042   1.091  1.00 23.13
ATOM   2300  N   GLU A 351      22.662  35.899   1.591  1.00 27.25
ATOM   2301  CA  GLU A 351      21.448  36.734   1.698  1.00 32.00
ATOM   2302  C   GLU A 351      20.870  36.948   0.306  1.00 33.92
ATOM   2303  O   GLU A 351      19.620  37.066   0.125  1.00 34.42
ATOM   2304  CB  GLU A 351      21.774  38.081   2.340  1.00 32.31
ATOM   2305  CG  GLU A 351      22.012  37.996   3.831  1.00 34.92
ATOM   2306  CD  GLU A 351      21.916  39.346   4.503  1.00 35.55
ATOM   2307  OE1 GLU A 351      22.819  40.187   4.293  1.00 36.64
ATOM   2308  OE2 GLU A 351      20.927  39.567   5.233  1.00 36.29
ATOM   2309  N   VAL A 352      21.753  37.007  -0.684  1.00 36.98
ATOM   2310  CA  VAL A 352      21.327  37.181  -2.082  1.00 38.72
ATOM   2311  C   VAL A 352      20.944  35.809  -2.629  1.00 40.47
ATOM   2312  O   VAL A 352      21.689  34.799  -2.426  1.00 39.68
ATOM   2313  CB  VAL A 352      22.456  37.767  -2.939  1.00 38.31
ATOM   2314  CG1 VAL A 352      21.999  37.892  -4.382  1.00 38.33
ATOM   2315  CG2 VAL A 352      22.866  39.123  -2.391  1.00 37.93
ATOM   2316  N   THR A 353      19.806  35.747  -3.314  1.00 42.33
ATOM   2317  CA  THR A 353      19.300  34.476  -3.882  1.00 43.97
ATOM   2318  C   THR A 353      20.254  33.832  -4.877  1.00 43.18
ATOM   2319  O   THR A 353      20.941  34.536  -5.688  1.00 42.65
ATOM   2320  CB  THR A 353      17.929  34.672  -4.578  1.00 45.29
ATOM   2321  OG1 THR A 353      18.018  35.743  -5.526  1.00 46.63
ATOM   2322  CG2 THR A 353      16.849  34.988  -3.551  1.00 46.31
ATOM   2323  N   ASN A 354      20.307  32.507  -4.839  1.00 42.20
ATOM   2324  CA  ASN A 354      21.183  31.741  -5.742  1.00 43.39
ATOM   2325  C   ASN A 354      22.641  32.166  -5.611  1.00 41.22
ATOM   2326  O   ASN A 354      23.444  32.078  -6.584  1.00 43.04
ATOM   2327  CB  ASN A 354      20.698  31.887  -7.187  1.00 45.64
ATOM   2328  CG  ASN A 354      19.467  31.036  -7.474  1.00 47.44
ATOM   2329  OD1 ASN A 354      18.824  31.163  -8.562  1.00 48.61
ATOM   2330  ND2 ASN A 354      19.121  30.159  -6.534  1.00 47.73
ATOM   2331  N   GLN A 355      22.999  32.621  -4.419  1.00 37.62
ATOM   2332  CA  GLN A 355      24.371  33.042  -4.128  1.00 34.85
ATOM   2333  C   GLN A 355      24.737  32.475  -2.764  1.00 32.57
ATOM   2334  O   GLN A 355      23.863  32.388  -1.846  1.00 31.25
ATOM   2335  CB  GLN A 355      24.459  34.563  -4.105  1.00 35.77
ATOM   2336  CG  GLN A 355      25.834  35.089  -3.797  1.00 38.04
ATOM   2337  CD  GLN A 355      25.909  36.590  -3.915  1.00 39.05
ATOM   2338  OE1 GLN A 355      25.586  37.171  -4.992  1.00 40.57
ATOM   2339  NE2 GLN A 355      26.331  37.249  -2.844  1.00 39.68
ATOM   2340  N   SER A 356      25.989  32.071  -2.597  1.00 29.33
ATOM   2341  CA  SER A 356      26.419  31.514  -1.304  1.00 25.60
ATOM   2342  C   SER A 356      27.850  31.897  -0.981  1.00 22.66
ATOM   2343  O   SER A 356      28.580  32.481  -1.833  1.00 21.99
ATOM   2344  CB  SER A 356      26.313  29.991  -1.318  1.00 25.71
ATOM   2345  OG  SER A 356      27.449  29.425  -1.945  1.00 24.59
ATOM   2346  N   PHE A 357      28.267  31.583   0.239  1.00 20.53
ATOM   2347  CA  PHE A 357      29.639  31.865   0.676  1.00 17.95
ATOM   2348  C   PHE A 357      30.104  30.643   1.437  1.00 17.15
ATOM   2349  O   PHE A 357      29.279  29.750   1.784  1.00 17.21
ATOM   2350  CB  PHE A 357      29.687  33.126   1.550  1.00 17.62
ATOM   2351  CG  PHE A 357      28.926  33.017   2.850  1.00 17.61
ATOM   2352  CD1 PHE A 357      29.571  32.625   4.018  1.00 15.09
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FIG. 1LL

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ATOM   2353  CD2 PHE A 357      27.577  33.357   2.912  1.00 16.90
ATOM   2354  CE1 PHE A 357      28.887  32.577   5.229  1.00 14.87
ATOM   2355  CE2 PHE A 357      26.881  33.312   4.120  1.00 15.64
ATOM   2356  CZ  PHE A 357      27.538  32.924   5.280  1.00 16.14
ATOM   2357  N   ARG A 358      31.397  30.545   1.687  1.00 16.29
ATOM   2358  CA  ARG A 358      31.891  29.383   2.412  1.00 14.04
ATOM   2359  C   ARG A 358      32.642  29.755   3.664  1.00 14.59
ATOM   2360  O   ARG A 358      33.237  30.869   3.785  1.00 13.01
ATOM   2361  CB  ARG A 358      32.784  28.525   1.516  1.00 14.11
ATOM   2362  CG  ARG A 358      34.084  29.172   1.102  1.00 13.28
ATOM   2363  CD  ARG A 358      34.809  28.275   0.121  1.00 13.06
ATOM   2364  NE  ARG A 358      36.090  28.831  -0.291  1.00 14.39
ATOM   2365  CZ  ARG A 358      36.723  28.489  -1.409  1.00 14.92
ATOM   2366  NH1 ARG A 358      36.188  27.591  -2.232  1.00 13.71
ATOM   2367  NH2 ARG A 358      37.888  29.045  -1.701  1.00 12.88
ATOM   2368  N   ILE A 359      32.612  28.819   4.596  1.00 14.51
ATOM   2369  CA  ILE A 359      33.268  28.935   5.891  1.00 16.36
ATOM   2370  C   ILE A 359      34.242  27.762   5.913  1.00 15.41
ATOM   2371  O   ILE A 359      33.836  26.583   5.675  1.00 15.49
ATOM   2372  CB  ILE A 359      32.197  28.824   7.001  1.00 17.94
ATOM   2373  CG1 ILE A 359      31.543  30.190   7.198  1.00 19.68
ATOM   2374  CG2 ILE A 359      32.766  28.260   8.255  1.00 20.12
ATOM   2375  CD1 ILE A 359      32.515  31.288   7.500  1.00 22.40
ATOM   2376  N   THR A 360      35.513  28.046   6.162  1.00 13.01
ATOM   2377  CA  THR A 360      36.531  26.983   6.167  1.00 14.32
ATOM   2378  C   THR A 360      37.307  26.894   7.470  1.00 14.04
ATOM   2379  O   THR A 360      37.892  27.913   7.938  1.00 13.82
ATOM   2380  CB  THR A 360      37.536  27.202   5.021  1.00 14.49
ATOM   2381  OG1 THR A 360      36.828  27.286   3.774  1.00 15.69
ATOM   2382  CG2 THR A 360      38.532  26.053   4.964  1.00 15.11
ATOM   2383  N   ILE A 361      37.331  25.709   8.074  1.00 13.79
ATOM   2384  CA  ILE A 361      38.091  25.524   9.330  1.00 17.36
ATOM   2385  C   ILE A 361      39.241  24.548   9.122  1.00 16.53
ATOM   2386  O   ILE A 361      39.237  23.717   8.160  1.00 16.37
ATOM   2387  CB  ILE A 361      37.208  24.982  10.476  1.00 18.15
ATOM   2388  CG1 ILE A 361      36.608  23.632  10.077  1.00 18.53
ATOM   2389  CG2 ILE A 361      36.126  25.999  10.830  1.00 18.95
ATOM   2390  CD1 ILE A 361      35.899  22.937  11.208  1.00 18.19
ATOM   2391  N   LEU A 362      40.230  24.614   9.998  1.00 17.82
ATOM   2392  CA  LEU A 362      41.375  23.710   9.876  1.00 18.92
ATOM   2393  C   LEU A 362      41.412  22.659  10.983  1.00 17.87
ATOM   2394  O   LEU A 362      40.533  22.654  11.912  1.00 17.21
ATOM   2395  CB  LEU A 362      42.675  24.525   9.837  1.00 22.47
ATOM   2396  CG  LEU A 362      42.686  25.974  10.320  1.00 25.03
ATOM   2397  CD1 LEU A 362      42.945  25.992  11.802  1.00 28.14
ATOM   2398  CD2 LEU A 362      43.781  26.751   9.623  1.00 25.06
ATOM   2399  N   PRO A 363      42.380  21.729  10.910  1.00 16.12
ATOM   2400  CA  PRO A 363      42.507  20.681  11.925  1.00 14.51
ATOM   2401  C   PRO A 363      42.628  21.325  13.303  1.00 14.50
ATOM   2402  O   PRO A 363      42.234  20.710  14.339  1.00 13.48
ATOM   2403  CB  PRO A 363      43.801  19.971  11.534  1.00 15.57
ATOM   2404  CG  PRO A 363      43.902  20.202  10.076  1.00 16.87
ATOM   2405  CD  PRO A 363      43.450  21.616   9.903  1.00 14.60
ATOM   2406  N   GLN A 364      43.178  22.539  13.337  1.00 12.36
ATOM   2407  CA  GLN A 364      43.357  23.271  14.608  1.00 13.04
ATOM   2408  C   GLN A 364      42.014  23.557  15.254  1.00 13.41
ATOM   2409  O   GLN A 364      41.953  23.895  16.467  1.00 12.73
ATOM   2410  CB  GLN A 364      44.111  24.585  14.392  1.00 12.04
ATOM   2411  CG  GLN A 364      45.637  24.449  14.304  1.00 11.85
ATOM   2412  CD  GLN A 364      46.141  24.079  12.919  1.00 11.11
ATOM   2413  OE1 GLN A 364      47.372  24.211  12.625  1.00 13.65
ATOM   2414  NE2 GLN A 364      45.245  23.621  12.056  1.00  8.04
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FIG. 1MM

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ATOM   2415  N   GLN A 365      40.939  23.446  14.478  1.00 13.30
ATOM   2416  CA  GLN A 365      39.580  23.657  15.023  1.00 14.36
ATOM   2417  C   GLN A 365      38.873  22.341  15.339  1.00 14.57
ATOM   2418  O   GLN A 365      38.312  22.175  16.457  1.00 16.56
ATOM   2419  CB  GLN A 365      38.691  24.452  14.056  1.00 14.03
ATOM   2420  CG  GLN A 365      38.816  25.962  14.167  1.00 15.23
ATOM   2421  CD  GLN A 365      40.073  26.489  13.515  1.00 15.81
ATOM   2422  OE1 GLN A 365      40.290  26.292  12.282  1.00 15.51
ATOM   2423  NE2 GLN A 365      40.917  27.158  14.295  1.00 15.82
ATOM   2424  N   TYR A 366      38.873  21.392  14.406  1.00 14.93
ATOM   2425  CA  TYR A 366      38.149  20.128  14.673  1.00 15.12
ATOM   2426  C   TYR A 366      38.914  19.053  15.447  1.00 15.66
ATOM   2427  O   TYR A 366      38.378  17.930  15.703  1.00 17.42
ATOM   2428  CB  TYR A 366      37.557  19.567  13.371  1.00 14.28
ATOM   2429  CG  TYR A 366      38.541  19.107  12.322  1.00 13.05
ATOM   2430  CD1 TYR A 366      39.228  17.907  12.467  1.00 13.67
ATOM   2431  CD2 TYR A 366      38.721  19.835  11.145  1.00 13.44
ATOM   2432  CE1 TYR A 366      40.062  17.431  11.463  1.00 12.91
ATOM   2433  CE2 TYR A 366      39.555  19.369  10.128  1.00 12.63
ATOM   2434  CZ  TYR A 366      40.218  18.163  10.294  1.00 13.86
ATOM   2435  OH  TYR A 366      41.008  17.669   9.287  1.00 12.42
ATOM   2436  N   LEU A 367      40.144  19.367  15.835  1.00 16.84
ATOM   2437  CA  LEU A 367      40.966  18.450  16.660  1.00 16.98
ATOM   2438  C   LEU A 367      40.996  19.161  18.017  1.00 17.50
ATOM   2439  O   LEU A 367      41.662  20.224  18.172  1.00 16.40
ATOM   2440  CB  LEU A 367      42.382  18.324  16.088  1.00 17.44
ATOM   2441  CG  LEU A 367      42.764  16.991  15.429  1.00 18.54
ATOM   2442  CD1 LEU A 367      41.681  16.534  14.482  1.00 17.60
ATOM   2443  CD2 LEU A 367      44.091  17.143  14.700  1.00 17.38
ATOM   2444  N   ARG A 368      40.270  18.624  18.990  1.00 17.06
ATOM   2445  CA  ARG A 368      40.192  19.253  20.326  1.00 17.22
ATOM   2446  C   ARG A 368      41.341  18.874  21.243  1.00 16.52
ATOM   2447  O   ARG A 368      41.554  17.662  21.538  1.00 16.19
ATOM   2448  CB  ARG A 368      38.879  18.871  21.009  1.00 16.02
ATOM   2449  CG  ARG A 368      38.050  20.055  21.444  1.00 19.09
ATOM   2450  CD  ARG A 368      37.415  19.811  22.792  1.00 17.88
ATOM   2451  NE  ARG A 368      36.840  18.474  22.906  1.00 17.20
ATOM   2452  CZ  ARG A 368      36.775  17.806  24.053  1.00 18.65
ATOM   2453  NH1 ARG A 368      37.247  18.361  25.164  1.00 18.77
ATOM   2454  NH2 ARG A 368      36.258  16.584  24.095  1.00 17.53
ATOM   2455  N   PRO A 369      42.100  19.867  21.722  1.00 17.88
ATOM   2456  CA  PRO A 369      43.220  19.558  22.615  1.00 19.69
ATOM   2457  C   PRO A 369      42.744  19.067  23.969  1.00 22.16
ATOM   2458  O   PRO A 369      41.786  19.645  24.575  1.00 20.49
ATOM   2459  CB  PRO A 369      43.983  20.883  22.700  1.00 20.03
ATOM   2460  CG  PRO A 369      42.932  21.911  22.429  1.00 19.96
ATOM   2461  CD  PRO A 369      42.122  21.285  21.320  1.00 17.42
ATOM   2462  N   VAL A 370      43.376  18.001  24.444  1.00 23.75
ATOM   2463  CA  VAL A 370      43.040  17.399  25.747  1.00 27.84
ATOM   2464  C   VAL A 370      44.332  16.921  26.394  1.00 30.26
ATOM   2465  O   VAL A 370      45.321  16.577  25.682  1.00 30.79
ATOM   2466  CB  VAL A 370      42.093  16.197  25.577  1.00 26.52
ATOM   2467  CG1 VAL A 370      40.771  16.654  24.989  1.00 26.57
ATOM   2468  CG2 VAL A 370      42.737  15.160  24.669  1.00 26.53
ATOM   2469  N   GLU A 371      44.361  16.891  27.719  1.00 35.50
ATOM   2470  CA  GLU A 371      45.574  16.450  28.426  1.00 40.60
ATOM   2471  C   GLU A 371      45.800  14.963  28.235  1.00 42.42
ATOM   2472  O   GLU A 371      44.832  14.138  28.321  1.00 41.89
ATOM   2473  CB  GLU A 371      45.472  16.758  29.921  1.00 43.12
ATOM   2474  CG  GLU A 371      46.603  17.634  30.443  1.00 47.33
ATOM   2475  CD  GLU A 371      47.954  17.245  29.864  1.00 49.98
ATOM   2476  OE1 GLU A 371      48.264  16.036  29.818  1.00 51.63
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FIG. 1NN

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ATOM   2477  OE2 GLU A 371      48.710  18.151  29.456  1.00 51.00
ATOM   2478  N   ASP A 372      47.046  14.596  27.960  1.00 45.77
ATOM   2479  CA  ASP A 372      47.396  13.182  27.774  1.00 49.75
ATOM   2480  C   ASP A 372      46.889  12.468  29.014  1.00 52.41
ATOM   2481  O   ASP A 372      47.090  12.966  30.165  1.00 52.32
ATOM   2482  CB  ASP A 372      48.913  13.015  27.665  1.00 50.28
ATOM   2483  CG  ASP A 372      49.323  11.587  27.333  1.00 51.15
ATOM   2484  OD1 ASP A 372      50.541  11.323  27.246  1.00 51.32
ATOM   2485  OD2 ASP A 372      48.429  10.729  27.156  1.00 50.76
ATOM   2486  N   VAL A 373      46.217  11.340  28.819  1.00 55.35
ATOM   2487  CA  VAL A 373      45.688  10.570  29.956  1.00 58.73
ATOM   2488  C   VAL A 373      46.850  10.213  30.896  1.00 60.04
ATOM   2489  O   VAL A 373      47.465   9.105  30.817  1.00 60.06
ATOM   2490  CB  VAL A 373      44.901   9.313  29.433  1.00 59.43
ATOM   2491  CG1 VAL A 373      45.292   8.044  30.176  1.00 59.64
ATOM   2492  CG2 VAL A 373      43.402   9.556  29.597  1.00 59.89
ATOM   2493  N   ALA A 374      47.187  11.169  31.759  1.00 61.58
ATOM   2494  CA  ALA A 374      48.277  11.020  32.755  1.00 61.52
ATOM   2495  C   ALA A 374      49.709  11.205  32.233  1.00 61.38
ATOM   2496  O   ALA A 374      50.104  10.633  31.169  1.00 60.95
ATOM   2497  CB  ALA A 374      48.155   9.668  33.455  1.00 62.66
ATOM   2498  N   THR A 375      50.477  12.002  32.977  1.00 61.03
ATOM   2499  CA  THR A 375      51.919  12.320  32.715  1.00 60.30
ATOM   2500  C   THR A 375      52.401  12.358  31.269  1.00 58.41
ATOM   2501  O   THR A 375      52.361  11.308  30.555  1.00 59.21
ATOM   2502  CB  THR A 375      52.838  11.327  33.455  1.00 61.35
ATOM   2503  OG1 THR A 375      52.302  11.049  34.756  1.00 62.26
ATOM   2504  CG2 THR A 375      54.237  11.912  33.599  1.00 61.47
ATOM   2505  N   SER A 376      52.892  13.520  30.833  1.00 55.18
ATOM   2506  CA  SER A 376      53.407  13.683  29.445  1.00 51.40
ATOM   2507  C   SER A 376      53.538  15.132  28.981  1.00 48.79
ATOM   2508  O   SER A 376      52.887  16.067  29.540  1.00 48.19
ATOM   2509  CB  SER A 376      52.502  12.943  28.456  1.00 51.90
ATOM   2510  OG  SER A 376      52.880  13.193  27.115  1.00 51.94
ATOM   2511  N   GLN A 377      54.373  15.333  27.968  1.00 44.88
ATOM   2512  CA  GLN A 377      54.576  16.664  27.367  1.00 41.28
ATOM   2513  C   GLN A 377      54.106  16.580  25.923  1.00 37.22
ATOM   2514  O   GLN A 377      54.380  17.489  25.081  1.00 35.23
ATOM   2515  CB  GLN A 377      56.048  17.062  27.425  1.00 43.59
ATOM   2516  CG  GLN A 377      56.468  17.585  28.789  1.00 46.22
ATOM   2517  CD  GLN A 377      57.955  17.831  28.886  1.00 47.12
ATOM   2518  OE1 GLN A 377      58.710  17.710  27.867  1.00 48.44
ATOM   2519  NE2 GLN A 377      58.414  18.177  30.081  1.00 48.23
ATOM   2520  N   ASP A 378      53.399  15.499  25.618  1.00 31.89
ATOM   2521  CA  ASP A 378      52.866  15.289  24.263  1.00 28.31
ATOM   2522  C   ASP A 378      51.663  16.183  24.034  1.00 25.36
ATOM   2523  O   ASP A 378      50.958  16.590  25.004  1.00 22.58
ATOM   2524  CB  ASP A 378      52.422  13.835  24.072  1.00 28.64
ATOM   2525  CG  ASP A 378      53.582  12.867  23.998  1.00 29.19
ATOM   2526  OD1 ASP A 378      54.746  13.316  23.948  1.00 30.91
ATOM   2527  OD2 ASP A 378      53.323  11.647  23.981  1.00 30.50
ATOM   2528  N   ASP A 379      51.415  16.513  22.776  1.00 23.06
ATOM   2529  CA  ASP A 379      50.236  17.317  22.436  1.00 22.51
ATOM   2530  C   ASP A 379      49.220  16.294  21.964  1.00 21.46
ATOM   2531  O   ASP A 379      49.436  15.581  20.945  1.00 19.87
ATOM   2532  CB  ASP A 379      50.570  18.335  21.346  1.00 21.72
ATOM   2533  CG  ASP A 379      51.557  19.377  21.829  1.00 23.29
ATOM   2534  OD1 ASP A 379      51.434  19.786  23.005  1.00 23.00
ATOM   2535  OD2 ASP A 379      52.446  19.789  21.052  1.00 23.50
ATOM   2536  N   CYS A 380      48.128  16.182  22.706  1.00 20.99
ATOM   2537  CA  CYS A 380      47.082  15.201  22.393  1.00 20.40
ATOM   2538  C   CYS A 380      45.769  15.865  22.013  1.00 19.94
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FIG. 100

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ATOM   2539  O   CYS A 380      45.489  17.038  22.417  1.00 18.77
ATOM   2540  CB  CYS A 380      46.867  14.292  23.596  1.00 23.14
ATOM   2541  SG  CYS A 380      48.368  13.550  24.327  1.00 25.25
ATOM   2542  N   TYR A 381      44.947  15.140  21.255  1.00 18.49
ATOM   2543  CA  TYR A 381      43.656  15.681  20.785  1.00 17.31
ATOM   2544  C   TYR A 381      42.595  14.610  20.602  1.00 17.45
ATOM   2545  O   TYR A 381      42.890  13.376  20.532  1.00 16.46
ATOM   2546  CB  TYR A 381      43.833  16.370  19.427  1.00 15.47
ATOM   2547  CG  TYR A 381      45.034  17.275  19.314  1.00 14.93
ATOM   2548  CD1 TYR A 381      44.899  18.659  19.408  1.00 14.20
ATOM   2549  CD2 TYR A 381      46.311  16.746  19.118  1.00 14.17
ATOM   2550  CE1 TYR A 381      46.009  19.499  19.307  1.00 14.66
ATOM   2551  CE2 TYR A 381      47.431  17.576  19.021  1.00 15.73
ATOM   2552  CZ  TYR A 381      47.272  18.952  19.113  1.00 16.02
ATOM   2553  OH  TYR A 381      48.369  19.785  18.994  1.00 15.32
ATOM   2554  N   LYS A 382      41.356  15.066  20.506  1.00 18.35
ATOM   2555  CA  LYS A 382      40.218  14.174  20.248  1.00 20.26
ATOM   2556  C   LYS A 382      39.555  14.695  18.981  1.00 19.31
ATOM   2557  O   LYS A 382      39.575  15.941  18.704  1.00 19.65
ATOM   2558  CB  LYS A 382      39.221  14.204  21.404  1.00 21.74
ATOM   2559  CG  LYS A 382      39.632  13.348  22.585  1.00 25.42
ATOM   2560  CD  LYS A 382      38.509  13.266  23.602  1.00 27.59
ATOM   2561  CE  LYS A 382      38.878  12.342  24.759  1.00 29.84
ATOM   2562  NZ  LYS A 382      37.779  12.246  25.761  1.00 31.22
ATOM   2563  N   PHE A 383      38.994  13.786  18.192  1.00 18.55
ATOM   2564  CA  PHE A 383      38.298  14.165  16.942  1.00 16.97
ATOM   2565  C   PHE A 383      36.992  14.823  17.375  1.00 16.22
ATOM   2566  O   PHE A 383      36.079  14.138  17.908  1.00 13.73
ATOM   2567  CB  PHE A 383      38.026  12.907  16.110  1.00 16.57
ATOM   2568  CG  PHE A 383      37.447  13.182  14.750  1.00 16.49
ATOM   2569  CD1 PHE A 383      38.052  14.091  13.890  1.00 14.48
ATOM   2570  CD2 PHE A 383      36.319  12.489  14.308  1.00 15.06
ATOM   2571  CE1 PHE A 383      37.542  14.306  12.606  1.00 16.02
ATOM   2572  CE2 PHE A 383      35.807  12.696  13.029  1.00 15.64
ATOM   2573  CZ  PHE A 383      36.419  13.603  12.176  1.00 15.10
ATOM   2574  N   ALA A 384      36.885  16.134  17.173  1.00 16.28
ATOM   2575  CA  ALA A 384      35.675  16.893  17.586  1.00 15.54
ATOM   2576  C   ALA A 384      34.549  16.931  16.559  1.00 15.46
ATOM   2577  O   ALA A 384      33.768  17.931  16.487  1.00 15.60
ATOM   2578  CB  ALA A 384      36.061  18.316  17.987  1.00 14.96
ATOM   2579  N   ILE A 385      34.451  15.888  15.745  1.00 14.66
ATOM   2580  CA  ILE A 385      33.356  15.792  14.763  1.00 13.45
ATOM   2581  C   ILE A 385      32.651  14.487  15.093  1.00 14.39
ATOM   2582  O   ILE A 385      33.303  13.410  15.179  1.00 12.37
ATOM   2583  CB  ILE A 385      33.862  15.724  13.315  1.00 12.54
ATOM   2584  CG1 ILE A 385      34.696  16.959  12.988  1.00 13.08
ATOM   2585  CG2 ILE A 385      32.675  15.655  12.367  1.00 12.56
ATOM   2586  CD1 ILE A 385      35.178  17.003  11.549  1.00 10.74
ATOM   2587  N   SER A 386      31.343  14.543  15.297  1.00 14.95
ATOM   2588  CA  SER A 386      30.605  13.319  15.637  1.00 16.99
ATOM   2589  C   SER A 386      29.275  13.221  14.918  1.00 17.48
ATOM   2590  O   SER A 386      28.795  14.207  14.279  1.00 18.09
ATOM   2591  CB  SER A 386      30.385  13.240  17.151  1.00 16.69
ATOM   2592  OG  SER A 386      29.630  14.345  17.616  1.00 16.81
ATOM   2593  N   GLN A 387      28.673  12.044  15.016  1.00 19.86
ATOM   2594  CA  GLN A 387      27.384  11.748  14.376  1.00 23.09
ATOM   2595  C   GLN A 387      26.209  12.317  15.160  1.00 22.61
ATOM   2596  O   GLN A 387      26.221  12.363  16.427  1.00 22.90
ATOM   2597  CB  GLN A 387      27.222  10.234  14.247  1.00 24.53
ATOM   2598  CG  GLN A 387      26.035   9.795  13.411  1.00 28.94
ATOM   2599  CD  GLN A 387      25.971   8.286  13.272  1.00 30.39
ATOM   2600  OE1 GLN A 387      27.013   7.619  12.999  1.00 31.54
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FIG. 1PP

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ATOM   2601  NE2 GLN A 387      24.782   7.721  13.441  1.00 32.07
ATOM   2602  N   SER A 388      25.186  12.743  14.434  1.00 21.60
ATOM   2603  CA  SER A 388      23.981  13.306  15.055  1.00 21.59
ATOM   2604  C   SER A 388      22.728  12.711  14.429  1.00 22.68
ATOM   2605  O   SER A 388      22.707  12.380  13.203  1.00 23.08
ATOM   2606  CB  SER A 388      23.959  14.824  14.871  1.00 19.88
ATOM   2607  OG  SER A 388      22.661  15.342  15.112  1.00 19.18
ATOM   2608  N   SER A 389      21.681  12.551  15.227  1.00 23.51
ATOM   2609  CA  SER A 389      20.405  12.024  14.690  1.00 24.44
ATOM   2610  C   SER A 389      19.391  13.167  14.708  1.00 23.83
ATOM   2611  O   SER A 389      18.181  12.973  14.385  1.00 23.81
ATOM   2612  CB  SER A 389      19.902  10.847  15.534  1.00 25.63
ATOM   2613  OG  SER A 389      19.681  11.235  16.881  1.00 27.65
ATOM   2614  N   THR A 390      19.861  14.360  15.066  1.00 22.66
ATOM   2615  CA  THR A 390      18.984  15.553  15.127  1.00 22.60
ATOM   2616  C   THR A 390      19.471  16.709  14.260  1.00 21.12
ATOM   2617  O   THR A 390      19.272  17.910  14.608  1.00 21.35
ATOM   2618  CB  THR A 390      18.825  16.052  16.577  1.00 23.02
ATOM   2619  OG1 THR A 390      20.117  16.288  17.150  1.00 24.55
ATOM   2620  CG2 THR A 390      18.079  15.010  17.413  1.00 23.83
ATOM   2621  N   GLY A 391      20.093  16.381  13.136  1.00 19.75
ATOM   2622  CA  GLY A 391      20.573  17.410  12.237  1.00 16.88
ATOM   2623  C   GLY A 391      21.982  17.891  12.526  1.00 17.24
ATOM   2624  O   GLY A 391      22.672  17.402  13.472  1.00 16.27
ATOM   2625  N   THR A 392      22.427  18.851  11.730  1.00 14.99
ATOM   2626  CA  THR A 392      23.773  19.423  11.880  1.00 14.81
ATOM   2627  C   THR A 392      23.841  20.514  12.938  1.00 14.47
ATOM   2628  O   THR A 392      22.949  21.409  13.012  1.00 16.11
ATOM   2629  CB  THR A 392      24.266  20.062  10.564  1.00 12.95
ATOM   2630  OG1 THR A 392      24.494  19.043   9.588  1.00 14.51
ATOM   2631  CG2 THR A 392      25.572  20.839  10.800  1.00 14.09
ATOM   2632  N   VAL A 393      24.857  20.458  13.779  1.00 13.06
ATOM   2633  CA  VAL A 393      25.027  21.534  14.746  1.00 15.07
ATOM   2634  C   VAL A 393      26.462  22.033  14.684  1.00 15.47
ATOM   2635  O   VAL A 393      27.450  21.265  14.908  1.00 16.85
ATOM   2636  CB  VAL A 393      24.619  21.128  16.201  1.00 16.35
ATOM   2637  CG1 VAL A 393      24.559  19.624  16.348  1.00 15.06
ATOM   2638  CG2 VAL A 393      25.566  21.766  17.210  1.00 13.79
ATOM   2639  N   MET A 394      26.592  23.298  14.312  1.00 15.41
ATOM   2640  CA  MET A 394      27.900  23.962  14.231  1.00 16.55
ATOM   2641  C   MET A 394      28.188  24.442  15.647  1.00 16.43
ATOM   2642  O   MET A 394      27.737  25.553  16.059  1.00 14.99
ATOM   2643  CB  MET A 394      27.822  25.143  13.264  1.00 16.88
ATOM   2644  CG  MET A 394      27.607  24.724  11.818  1.00 21.12
ATOM   2645  SD  MET A 394      27.178  26.083  10.700  1.00 27.34
ATOM   2646  CE  MET A 394      25.475  25.768  10.522  1.00 26.22
ATOM   2647  N   GLY A 395      28.909  23.622  16.406  1.00 16.28
ATOM   2648  CA  GLY A 395      29.220  23.967  17.780  1.00 15.87
ATOM   2649  C   GLY A 395      30.487  24.775  17.971  1.00 16.72
ATOM   2650  O   GLY A 395      31.011  25.408  17.005  1.00 16.25
ATOM   2651  N   ALA A 396      30.989  24.769  19.202  1.00 17.29
ATOM   2652  CA  ALA A 396      32.211  25.511  19.586  1.00 19.21
ATOM   2653  C   ALA A 396      33.383  25.310  18.634  1.00 19.63
ATOM   2654  O   ALA A 396      34.050  26.303  18.223  1.00 22.56
ATOM   2655  CB  ALA A 396      32.626  25.128  21.013  1.00 16.95
ATOM   2656  N   VAL A 397      33.661  24.065  18.269  1.00 21.31
ATOM   2657  CA  VAL A 397      34.792  23.781  17.353  1.00 23.40
ATOM   2658  C   VAL A 397      34.690  24.592  16.068  1.00 21.89
ATOM   2659  O   VAL A 397      35.731  25.029  15.496  1.00 24.15
ATOM   2660  CB  VAL A 397      34.874  22.274  17.012  1.00 24.19
ATOM   2661  CG1 VAL A 397      35.065  21.480  18.287  1.00 26.91
ATOM   2662  CG2 VAL A 397      33.623  21.826  16.290  1.00 25.89
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FIG. 1QQ

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ATOM   2663  N   ILE A 398      33.472  24.805  15.586  1.00 21.78
ATOM   2664  CA  ILE A 398      33.276  25.612  14.359  1.00 21.50
ATOM   2665  C   ILE A 398      33.403  27.086  14.735  1.00 19.91
ATOM   2666  O   ILE A 398      34.222  27.849  14.135  1.00 16.77
ATOM   2667  CB  ILE A 398      31.872  25.390  13.749  1.00 23.48
ATOM   2668  CG1 ILE A 398      31.859  24.113  12.910  1.00 26.70
ATOM   2669  CG2 ILE A 398      31.469  26.596  12.895  1.00 24.67
ATOM   2670  CD1 ILE A 398      32.656  24.223  11.620  1.00 27.64
ATOM   2671  N   MET A 399      32.614  27.492  15.726  1.00 17.64
ATOM   2672  CA  MET A 399      32.594  28.889  16.201  1.00 16.99
ATOM   2673  C   MET A 399      33.951  29.439  16.640  1.00 17.65
ATOM   2674  O   MET A 399      34.202  30.677  16.517  1.00 18.70
ATOM   2675  CB  MET A 399      31.575  29.025  17.331  1.00 15.33
ATOM   2676  CG  MET A 399      30.138  28.800  16.866  1.00 14.30
ATOM   2677  SD  MET A 399      28.891  29.038  18.155  1.00 16.41
ATOM   2678  CE  MET A 399      28.972  30.826  18.388  1.00 10.15
ATOM   2679  N   GLU A 400      34.835  28.579  17.143  1.00 16.09
ATOM   2680  CA  GLU A 400      36.175  29.051  17.580  1.00 16.46
ATOM   2681  C   GLU A 400      36.968  29.576  16.389  1.00 14.50
ATOM   2682  O   GLU A 400      37.971  30.332  16.553  1.00 14.83
ATOM   2683  CB  GLU A 400      36.957  27.919  18.257  1.00 15.95
ATOM   2684  CG  GLU A 400      36.318  27.419  19.540  1.00 18.44
ATOM   2685  CD  GLU A 400      37.156  26.376  20.243  1.00 18.72
ATOM   2686  OE1 GLU A 400      37.771  25.542  19.546  1.00 20.29
ATOM   2687  OE2 GLU A 400      37.186  26.383  21.493  1.00 19.60
ATOM   2688  N   GLY A 401      36.544  29.204  15.190  1.00 13.62
ATOM   2689  CA  GLY A 401      37.246  29.662  14.010  1.00 15.09
ATOM   2690  C   GLY A 401      36.747  31.010  13.533  1.00 16.28
ATOM   2691  O   GLY A 401      37.435  31.693  12.716  1.00 16.14
ATOM   2692  N   PHE A 402      35.591  31.438  14.033  1.00 14.90
ATOM   2693  CA  PHE A 402      35.018  32.712  13.572  1.00 15.01
ATOM   2694  C   PHE A 402      34.378  33.605  14.615  1.00 15.52
ATOM   2695  O   PHE A 402      34.078  33.185  15.777  1.00 16.47
ATOM   2696  CB  PHE A 402      33.966  32.424  12.495  1.00 14.48
ATOM   2697  CG  PHE A 402      34.381  31.364  11.522  1.00 15.64
ATOM   2698  CD1 PHE A 402      34.126  30.021  11.785  1.00 14.91
ATOM   2699  CD2 PHE A 402      35.095  31.700  10.376  1.00 15.20
ATOM   2700  CE1 PHE A 402      34.581  29.027  10.920  1.00 15.18
ATOM   2701  CE2 PHE A 402      35.555  30.717   9.507  1.00 15.72
ATOM   2702  CZ  PHE A 402      35.298  29.376   9.782  1.00 15.12
ATOM   2703  N   TYR A 403      34.168  34.847  14.208  1.00 15.73
ATOM   2704  CA  TYR A 403      33.474  35.837  15.039  1.00 15.81
ATOM   2705  C   TYR A 403      32.071  35.641  14.489  1.00 14.48
ATOM   2706  O   TYR A 403      31.846  35.789  13.250  1.00 15.47
ATOM   2707  CB  TYR A 403      33.977  37.251  14.731  1.00 14.45
ATOM   2708  CG  TYR A 403      33.265  38.340  15.499  1.00 15.22
ATOM   2709  CD1 TYR A 403      32.899  38.152  16.834  1.00 14.85
ATOM   2710  CD2 TYR A 403      33.018  39.584  14.916  1.00 14.28
ATOM   2711  CE1 TYR A 403      32.311  39.175  17.569  1.00 15.25
ATOM   2712  CE2 TYR A 403      32.435  40.617  15.644  1.00 14.12
ATOM   2713  CZ  TYR A 403      32.086  40.406  16.967  1.00 15.72
ATOM   2714  OH  TYR A 403      31.525  41.427  17.697  1.00 18.09
ATOM   2715  N   VAL A 404      31.125  35.286  15.345  1.00 14.70
ATOM   2716  CA  VAL A 404      29.753  35.040  14.854  1.00 14.44
ATOM   2717  C   VAL A 404      28.759  36.079  15.342  1.00 14.92
ATOM   2718  O   VAL A 404      28.552  36.259  16.582  1.00 15.62
ATOM   2719  CB  VAL A 404      29.284  33.629  15.260  1.00 14.39
ATOM   2720  CG1 VAL A 404      27.925  33.323  14.640  1.00 11.90
ATOM   2721  CG2 VAL A 404      30.327  32.603  14.819  1.00 12.73
ATOM   2722  N   VAL A 405      28.136  36.762  14.386  1.00 16.06
ATOM   2723  CA  VAL A 405      27.153  37.822  14.676  1.00 14.31
ATOM   2724  C   VAL A 405      25.717  37.312  14.562  1.00 16.79
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FIG. 1RR

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ATOM   2725  O   VAL A 405      25.238  36.955  13.443  1.00 16.14
ATOM   2726  CB  VAL A 405      27.318  39.004  13.700  1.00 13.66
ATOM   2727  CG1 VAL A 405      26.302  40.092  14.021  1.00 12.39
ATOM   2728  CG2 VAL A 405      28.739  39.547  13.775  1.00 10.80
ATOM   2729  N   PHE A 406      25.019  37.260  15.691  1.00 16.73
ATOM   2730  CA  PHE A 406      23.616  36.805  15.685  1.00 16.71
ATOM   2731  C   PHE A 406      22.755  38.049  15.531  1.00 17.47
ATOM   2732  O   PHE A 406      22.286  38.654  16.539  1.00 17.39
ATOM   2733  CB  PHE A 406      23.287  36.053  16.979  1.00 13.96
ATOM   2734  CG  PHE A 406      24.061  34.765  17.139  1.00 13.82
ATOM   2735  CD1 PHE A 406      25.398  34.783  17.533  1.00 13.31
ATOM   2736  CD2 PHE A 406      23.464  33.538  16.863  1.00 12.85
ATOM   2737  CE1 PHE A 406      26.128  33.601  17.646  1.00 13.23
ATOM   2738  CE2 PHE A 406      24.185  32.350  16.973  1.00 12.78
ATOM   2739  CZ  PHE A 406      25.522  32.382  17.367  1.00 12.96
ATOM   2740  N   ASP A 407      22.566  38.449  14.278  1.00 18.08
ATOM   2741  CA  ASP A 407      21.785  39.647  13.932  1.00 19.70
ATOM   2742  C   ASP A 407      20.297  39.316  13.927  1.00 19.73
ATOM   2743  O   ASP A 407      19.675  39.120  12.837  1.00 18.96
ATOM   2744  CB  ASP A 407      22.221  40.153  12.552  1.00 22.61
ATOM   2745  CG  ASP A 407      21.663  41.530  12.223  1.00 24.28
ATOM   2746  OD1 ASP A 407      20.660  41.935  12.849  1.00 24.12
ATOM   2747  OD2 ASP A 407      22.225  42.198  11.325  1.00 23.37
ATOM   2748  N   ARG A 408      19.709  39.245  15.116  1.00 19.72
ATOM   2749  CA  ARG A 408      18.269  38.928  15.259  1.00 22.01
ATOM   2750  C   ARG A 408      17.393  39.967  14.557  1.00 21.56
ATOM   2751  O   ARG A 408      16.386  39.606  13.875  1.00 20.49
ATOM   2752  CB  ARG A 408      17.909  38.835  16.748  1.00 23.44
ATOM   2753  CG  ARG A 408      18.670  37.724  17.479  1.00 25.61
ATOM   2754  CD  ARG A 408      18.838  37.994  18.973  1.00 28.14
ATOM   2755  NE  ARG A 408      17.843  37.328  19.814  1.00 31.17
ATOM   2756  CZ  ARG A 408      16.567  37.679  19.887  1.00 32.24
ATOM   2757  NH1 ARG A 408      16.127  38.693  19.163  1.00 35.70
ATOM   2758  NH2 ARG A 408      15.735  37.029  20.687  1.00 31.13
ATOM   2759  N   ALA A 409      17.750  41.241  14.694  1.00 21.10
ATOM   2760  CA  ALA A 409      16.978  42.329  14.056  1.00 22.43
ATOM   2761  C   ALA A 409      16.785  42.050  12.571  1.00 22.80
ATOM   2762  O   ALA A 409      15.646  42.177  12.034  1.00 24.04
ATOM   2763  CB  ALA A 409      17.689  43.664  14.247  1.00 20.85
ATOM   2764  N   ARG A 410      17.858  41.664  11.889  1.00 23.89
ATOM   2765  CA  ARG A 410      17.770  41.374  10.445  1.00 25.07
ATOM   2766  C   ARG A 410      17.639  39.888  10.119  1.00 24.26
ATOM   2767  O   ARG A 410      17.908  39.461   8.956  1.00 24.63
ATOM   2768  CB  ARG A 410      18.987  41.949   9.724  1.00 26.83
ATOM   2769  CG  ARG A 410      19.025  43.464   9.700  1.00 29.89
ATOM   2770  CD  ARG A 410      19.326  43.944   8.295  1.00 32.69
ATOM   2771  NE  ARG A 410      20.590  44.664   8.208  1.00 33.51
ATOM   2772  CZ  ARG A 410      21.182  44.979   7.062  1.00 34.58
ATOM   2773  NH1 ARG A 410      20.626  44.631   5.907  1.00 33.99
ATOM   2774  NH2 ARG A 410      22.328  45.644   7.068  1.00 35.27
ATOM   2775  N   LYS A 411      17.223  39.091  11.097  1.00 22.77
ATOM   2776  CA  LYS A 411      17.061  37.630  10.891  1.00 22.97
ATOM   2777  C   LYS A 411      18.227  37.031  10.104  1.00 21.80
ATOM   2778  O   LYS A 411      18.015  36.309   9.081  1.00 20.39
ATOM   2779  CB  LYS A 411      15.761  37.335  10.138  1.00 23.53
ATOM   2780  CG  LYS A 411      14.491  37.686  10.886  1.00 27.80
ATOM   2781  CD  LYS A 411      13.270  37.188  10.121  1.00 30.25
ATOM   2782  CE  LYS A 411      13.337  35.678   9.890  1.00 31.18
ATOM   2783  NZ  LYS A 411      12.153  35.163   9.142  1.00 34.08
ATOM   2784  N   ARG A 412      19.449  37.290  10.541  1.00 19.85
ATOM   2785  CA  ARG A 412      20.607  36.748   9.815  1.00 18.29
ATOM   2786  C   ARG A 412      21.789  36.505  10.736  1.00 18.54
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FIG. 1SS

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ATOM   2787  O   ARG A 412      21.911  37.137  11.837  1.00 18.56
ATOM   2788  CB  ARG A 412      21.019  37.714   8.703  1.00 18.72
ATOM   2789  CG  ARG A 412      21.571  39.027   9.239  1.00 18.66
ATOM   2790  CD  ARG A 412      21.941  39.988   8.127  1.00 18.34
ATOM   2791  NE  ARG A 412      22.560  41.196   8.662  1.00 19.28
ATOM   2792  CZ  ARG A 412      23.082  42.163   7.916  1.00 20.03
ATOM   2793  NH1 ARG A 412      23.059  42.067   6.591  1.00 19.36
ATOM   2794  NH2 ARG A 412      23.635  43.219   8.496  1.00 19.27
ATOM   2795  N   ILE A 413      22.668  35.606  10.317  1.00 17.01
ATOM   2796  CA  ILE A 413      23.865  35.285  11.103  1.00 16.43
ATOM   2797  C   ILE A 413      25.103  35.576  10.266  1.00 16.20
ATOM   2798  O   ILE A 413      25.213  35.125   9.084  1.00 17.17
ATOM   2799  CB  ILE A 413      23.855  33.808  11.533  1.00 16.02
ATOM   2800  CG1 ILE A 413      22.667  33.562  12.469  1.00 13.92
ATOM   2801  CG2 ILE A 413      25.168  33.458  12.218  1.00 15.95
ATOM   2802  CD1 ILE A 413      22.482  32.130  12.862  1.00 14.89
ATOM   2803  N   GLY A 414      26.028  36.332  10.841  1.00 15.43
ATOM   2804  CA  GLY A 414      27.243  36.679  10.132  1.00 14.42
ATOM   2805  C   GLY A 414      28.463  35.899  10.585  1.00 14.91
ATOM   2806  O   GLY A 414      28.569  35.463  11.779  1.00 12.74
ATOM   2807  N   PHE A 415      29.392  35.709   9.656  1.00 12.70
ATOM   2808  CA  PHE A 415      30.638  34.977   9.932  1.00 14.84
ATOM   2809  C   PHE A 415      31.823  35.766   9.403  1.00 15.05
ATOM   2810  O   PHE A 415      31.761  36.376   8.291  1.00 17.34
ATOM   2811  CB  PHE A 415      30.613  33.599   9.256  1.00 13.57
ATOM   2812  CG  PHE A 415      29.628  32.640   9.860  1.00 13.35
ATOM   2813  CD1 PHE A 415      30.034  31.710  10.820  1.00 14.56
ATOM   2814  CD2 PHE A 415      28.296  32.660   9.472  1.00 11.54
ATOM   2815  CE1 PHE A 415      29.117  30.809  11.383  1.00 13.74
ATOM   2816  CE2 PHE A 415      27.373  31.768  10.027  1.00 12.67
ATOM   2817  CZ  PHE A 415      27.787  30.839  10.985  1.00 13.15
ATOM   2818  N   ALA A 416      32.895  35.779  10.178  1.00 15.11
ATOM   2819  CA  ALA A 416      34.135  36.470   9.786  1.00 14.57
ATOM   2820  C   ALA A 416      35.248  35.738  10.515  1.00 14.48
ATOM   2821  O   ALA A 416      35.027  35.186  11.639  1.00 12.56
ATOM   2822  CB  ALA A 416      34.095  37.935  10.208  1.00 11.46
ATOM   2823  N   VAL A 417      36.425  35.692   9.906  1.00 14.71
ATOM   2824  CA  VAL A 417      37.569  35.011  10.528  1.00 16.80
ATOM   2825  C   VAL A 417      37.835  35.634  11.892  1.00 18.08
ATOM   2826  O   VAL A 417      37.922  36.901  12.033  1.00 17.13
ATOM   2827  CB  VAL A 417      38.824  35.126   9.642  1.00 17.67
ATOM   2828  CG1 VAL A 417      40.022  34.486  10.333  1.00 16.83
ATOM   2829  CG2 VAL A 417      38.561  34.441   8.301  1.00 18.32
ATOM   2830  N   SER A 418      37.953  34.785  12.905  1.00 17.31
ATOM   2831  CA  SER A 418      38.201  35.271  14.272  1.00 17.62
ATOM   2832  C   SER A 418      39.637  35.712  14.455  1.00 18.36
ATOM   2833  O   SER A 418      40.591  35.038  13.963  1.00 19.44
ATOM   2834  CB  SER A 418      37.882  34.182  15.295  1.00 18.09
ATOM   2835  OG  SER A 418      38.228  34.617  16.599  1.00 17.42
ATOM   2836  N   ALA A 419      39.821  36.827  15.150  1.00 17.60
ATOM   2837  CA  ALA A 419      41.175  37.335  15.410  1.00 18.46
ATOM   2838  C   ALA A 419      41.877  36.423  16.423  1.00 19.09
ATOM   2839  O   ALA A 419      43.117  36.553  16.649  1.00 19.60
ATOM   2840  CB  ALA A 419      41.106  38.772  15.943  1.00 17.70
ATOM   2841  N   CYS A 420      41.132  35.500  17.032  1.00 19.36
ATOM   2842  CA  CYS A 420      41.736  34.575  18.029  1.00 20.89
ATOM   2843  C   CYS A 420      41.677  33.105  17.624  1.00 19.60
ATOM   2844  O   CYS A 420      41.805  32.202  18.501  1.00 22.74
ATOM   2845  CB  CYS A 420      41.064  34.734  19.410  1.00 21.69
ATOM   2846  SG  CYS A 420      39.353  34.096  19.526  1.00 25.02
ATOM   2847  N   HIS A 421      41.495  32.814  16.342  1.00 17.86
ATOM   2848  CA  HIS A 421      41.435  31.393  15.933  1.00 17.71
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FIG. 1TT

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ATOM   2849  C   HIS A 421      42.834  30.798  15.799  1.00 17.18
ATOM   2850  O   HIS A 421      43.801  31.495  15.356  1.00 14.17
ATOM   2851  CB  HIS A 421      40.641  31.236  14.625  1.00 18.65
ATOM   2852  CG  HIS A 421      41.433  31.504  13.381  1.00 18.77
ATOM   2853  ND1 HIS A 421      42.114  30.514  12.705  1.00 18.84
ATOM   2854  CD2 HIS A 421      41.631  32.645  12.678  1.00 18.73
ATOM   2855  CE1 HIS A 421      42.695  31.032  11.637  1.00 17.98
ATOM   2856  NE2 HIS A 421      42.418  32.323  11.597  1.00 20.03
ATOM   2857  N   VAL A 422      42.965  29.533  16.194  1.00 16.96
ATOM   2858  CA  VAL A 422      44.260  28.816  16.132  1.00 16.89
ATOM   2859  C   VAL A 422      44.571  28.334  14.719  1.00 17.53
ATOM   2860  O   VAL A 422      43.678  27.764  14.021  1.00 17.13
ATOM   2861  CB  VAL A 422      44.257  27.588  17.061  1.00 16.92
ATOM   2862  CG1 VAL A 422      45.632  26.938  17.063  1.00 15.15
ATOM   2863  CG2 VAL A 422      43.850  28.004  18.479  1.00 19.33
ATOM   2864  N   HIS A 423      45.815  28.531  14.291  1.00 16.64
ATOM   2865  CA  HIS A 423      46.264  28.112  12.940  1.00 16.92
ATOM   2866  C   HIS A 423      47.792  28.038  12.906  1.00 17.46
ATOM   2867  O   HIS A 423      48.461  28.105  13.981  1.00 17.20
ATOM   2868  CB  HIS A 423      45.755  29.111  11.889  1.00 15.85
ATOM   2869  CG  HIS A 423      46.242  30.512  12.096  1.00 18.62
ATOM   2870  ND1 HIS A 423      47.390  30.998  11.504  1.00 19.80
ATOM   2871  CD2 HIS A 423      45.758  31.522  12.857  1.00 17.42
ATOM   2872  CE1 HIS A 423      47.590  32.245  11.892  1.00 18.22
ATOM   2873  NE2 HIS A 423      46.615  32.586  12.714  1.00 18.53
ATOM   2874  N   ASP A 424      48.360  27.869  11.714  1.00 18.00
ATOM   2875  CA  ASP A 424      49.836  27.817  11.556  1.00 17.75
ATOM   2876  C   ASP A 424      50.194  28.804  10.453  1.00 18.36
ATOM   2877  O   ASP A 424      49.294  29.527   9.935  1.00 20.02
ATOM   2878  CB  ASP A 424      50.305  26.396  11.206  1.00 18.00
ATOM   2879  CG  ASP A 424      49.545  25.791  10.037  1.00 19.08
ATOM   2880  OD1 ASP A 424      49.110  24.623  10.149  1.00 18.99
ATOM   2881  OD2 ASP A 424      49.390  26.473   9.003  1.00 20.46
ATOM   2882  N   GLU A 425      51.459  28.877  10.063  1.00 17.55
ATOM   2883  CA  GLU A 425      51.813  29.853   9.015  1.00 18.77
ATOM   2884  C   GLU A 425      51.497  29.379   7.601  1.00 16.95
ATOM   2885  O   GLU A 425      51.724  30.131   6.613  1.00 17.24
ATOM   2886  CB  GLU A 425      53.289  30.239   9.112  1.00 18.65
ATOM   2887  CG  GLU A 425      54.254  29.150   8.714  1.00 20.84
ATOM   2888  CD  GLU A 425      55.632  29.697   8.381  1.00 21.89
ATOM   2889  OE1 GLU A 425      56.481  28.901   7.936  1.00 22.61
ATOM   2890  OE2 GLU A 425      55.867  30.920   8.559  1.00 22.65
ATOM   2891  N   PHE A 426      50.955  28.171   7.476  1.00 14.60
ATOM   2892  CA  PHE A 426      50.619  27.606   6.150  1.00 13.51
ATOM   2893  C   PHE A 426      49.157  27.767   5.763  1.00 15.14
ATOM   2894  O   PHE A 426      48.826  27.822   4.540  1.00 16.10
ATOM   2895  CB  PHE A 426      51.001  26.127   6.109  1.00 14.53
ATOM   2896  CG  PHE A 426      52.452  25.877   6.400  1.00 14.20
ATOM   2897  CD1 PHE A 426      53.433  26.244   5.482  1.00 13.59
ATOM   2898  CD2 PHE A 426      52.841  25.298   7.606  1.00 14.11
ATOM   2899  CE1 PHE A 426      54.787  26.040   5.762  1.00 14.83
ATOM   2900  CE2 PHE A 426      54.192  25.087   7.897  1.00 15.49
ATOM   2901  CZ  PHE A 426      55.167  25.460   6.969  1.00 14.08
ATOM   2902  N   ARG A 427      48.269  27.827   6.752  1.00 13.77
ATOM   2903  CA  ARG A 427      46.824  27.985   6.469  1.00 14.89
ATOM   2904  C   ARG A 427      46.130  28.695   7.615  1.00 15.43
ATOM   2905  O   ARG A 427      46.630  28.710   8.781  1.00 14.58
ATOM   2906  CB  ARG A 427      46.132  26.632   6.301  1.00 15.33
ATOM   2907  CG  ARG A 427      46.959  25.518   5.707  1.00 16.84
ATOM   2908  CD  ARG A 427      46.645  24.234   6.477  1.00 17.68
ATOM   2909  NE  ARG A 427      45.994  23.230   5.655  1.00 16.69
ATOM   2910  CZ  ARG A 427      45.701  21.998   6.062  1.00 15.45
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FIG. 1UU

ATOM	2911	NH1	ARG	A	427	45.114	21.159	5.224	1.00 14.20
ATOM	2912	NH2	ARG	A	427	45.981	21.603	7.296	1.00 13.31
ATOM	2913	N	THR	A	428	44.976	29.269	7.317	1.00 15.28
ATOM	2914	CA	THR	A	428	44.180	29.967	8.336	1.00 17.94
ATOM	2915	C	THR	A	428	42.731	29.650	8.041	1.00 16.25
ATOM	2916	O	THR	A	428	42.400	29.165	6.923	1.00 14.77
ATOM	2917	CB	THR	A	428	44.353	31.503	8.249	1.00 18.18
ATOM	2918	OG1	THR	A	428	44.043	31.942	6.921	1.00 20.24
ATOM	2919	CG2	THR	A	428	45.773	31.901	8.583	1.00 19.84
ATOM	2920	N	ALA	A	429	41.860	29.901	9.009	1.00 16.14
ATOM	2921	CA	ALA	A	429	40.423	29.677	8.803	1.00 16.03
ATOM	2922	C	ALA	A	429	40.048	30.739	7.775	1.00 15.66
ATOM	2923	O	ALA	A	429	40.808	31.738	7.574	1.00 14.51
ATOM	2924	CB	ALA	A	429	39.656	29.898	10.105	1.00 17.08
ATOM	2925	N	ALA	A	430	38.920	30.575	7.107	1.00 14.04
ATOM	2926	CA	ALA	A	430	38.556	31.576	6.100	1.00 13.71
ATOM	2927	C	ALA	A	430	37.067	31.706	5.883	1.00 11.98
ATOM	2928	O	ALA	A	430	36.271	30.754	6.166	1.00 12.33
ATOM	2929	CB	ALA	A	430	39.251	31.246	4.762	1.00 12.27
ATOM	2930	N	VAL	A	431	36.671	32.874	5.396	1.00 11.01
ATOM	2931	CA	VAL	A	431	35.260	33.149	5.076	1.00 13.39
ATOM	2932	C	VAL	A	431	35.344	33.773	3.697	1.00 15.69
ATOM	2933	O	VAL	A	431	35.857	34.926	3.533	1.00 17.86
ATOM	2934	CB	VAL	A	431	34.624	34.145	6.056	1.00 11.50
ATOM	2935	CG1	VAL	A	431	33.148	34.294	5.737	1.00 10.61
ATOM	2936	CG2	VAL	A	431	34.818	33.659	7.494	1.00 10.71
ATOM	2937	N	GLU	A	432	34.874	33.048	2.694	1.00 16.74
ATOM	2938	CA	GLU	A	432	34.969	33.544	1.320	1.00 18.65
ATOM	2939	C	GLU	A	432	33.681	33.414	0.530	1.00 18.40
ATOM	2940	O	GLU	A	432	32.794	32.567	0.852	1.00 16.81
ATOM	2941	CB	GLU	A	432	36.097	32.796	0.607	1.00 19.91
ATOM	2942	CG	GLU	A	432	37.460	33.031	1.241	1.00 24.66
ATOM	2943	CD	GLU	A	432	38.466	31.930	0.935	1.00 27.80
ATOM	2944	OE1	GLU	A	432	39.681	32.196	1.051	1.00 30.84
ATOM	2945	OE2	GLU	A	432	38.049	30.799	0.595	1.00 28.87
ATOM	2946	N	GLY	A	433	33.574	34.243	-0.504	1.00 18.95
ATOM	2947	CA	GLY	A	433	32.408	34.244	-1.363	1.00 19.36
ATOM	2948	C	GLY	A	433	32.504	35.385	-2.359	1.00 19.59
ATOM	2949	O	GLY	A	433	33.489	36.173	-2.328	1.00 18.33
ATOM	2950	N	PRO	A	434	31.511	35.539	-3.243	1.00 19.47
ATOM	2951	CA	PRO	A	434	30.345	34.655	-3.285	1.00 19.72
ATOM	2952	C	PRO	A	434	30.485	33.589	-4.353	1.00 19.98
ATOM	2953	O	PRO	A	434	31.382	33.674	-5.235	1.00 22.24
ATOM	2954	CB	PRO	A	434	29.215	35.619	-3.595	1.00 19.80
ATOM	2955	CG	PRO	A	434	29.869	36.517	-4.616	1.00 19.70
ATOM	2956	CD	PRO	A	434	31.261	36.770	-4.018	1.00 19.73
ATOM	2957	N	PHE	A	435	29.624	32.583	-4.290	1.00 21.45
ATOM	2958	CA	PHE	A	435	29.619	31.502	-5.292	1.00 22.31
ATOM	2959	C	PHE	A	435	28.217	31.513	-5.872	1.00 24.39
ATOM	2960	O	PHE	A	435	27.207	31.636	-5.110	1.00 24.58
ATOM	2961	CB	PHE	A	435	29.924	30.155	-4.636	1.00 22.02
ATOM	2962	CG	PHE	A	435	31.215	30.141	-3.876	1.00 20.80
ATOM	2963	CD1	PHE	A	435	31.232	30.392	-2.507	1.00 20.70
ATOM	2964	CD2	PHE	A	435	32.424	29.945	-4.542	1.00 21.70
ATOM	2965	CE1	PHE	A	435	32.432	30.451	-1.809	1.00 20.27
ATOM	2966	CE2	PHE	A	435	33.634	30.003	-3.853	1.00 21.68
ATOM	2967	CZ	PHE	A	435	33.637	30.259	-2.481	1.00 21.51
ATOM	2968	N	VAL	A	436	28.117	31.396	-7.192	1.00 27.02
ATOM	2969	CA	VAL	A	436	26.802	31.438	-7.872	1.00 29.79
ATOM	2970	C	VAL	A	436	26.526	30.219	-8.739	1.00 32.85
ATOM	2971	O	VAL	A	436	25.434	30.120	-9.376	1.00 33.81
ATOM	2972	CB	VAL	A	436	26.702	32.677	-8.787	1.00 28.98

FIG. 1VV

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ATOM   2973  CG1 VAL A 436      26.999  33.944  -7.996  1.00 29.00
ATOM   2974  CG2 VAL A 436      27.678  32.537  -9.947  1.00 28.49
ATOM   2975  N   THR A 437      27.473  29.292  -8.795  1.00 36.05
ATOM   2976  CA  THR A 437      27.305  28.089  -9.638  1.00 39.30
ATOM   2977  C   THR A 437      26.582  26.979  -8.870  1.00 41.99
ATOM   2978  O   THR A 437      26.604  25.775  -9.276  1.00 41.77
ATOM   2979  CB  THR A 437      28.690  27.592 -10.123  1.00 39.02
ATOM   2980  OG1 THR A 437      28.552  26.981 -11.408  1.00 42.51
ATOM   2981  CG2 THR A 437      29.280  26.578  -9.156  1.00 38.10
ATOM   2982  N   LEU A 438      25.908  27.368  -7.794  1.00 45.33
ATOM   2983  CA  LEU A 438      25.199  26.417  -6.901  1.00 49.22
ATOM   2984  C   LEU A 438      23.753  26.016  -7.165  1.00 50.49
ATOM   2985  O   LEU A 438      22.869  26.878  -7.466  1.00 51.99
ATOM   2986  CB  LEU A 438      25.276  26.944  -5.473  1.00 50.30
ATOM   2987  CG  LEU A 438      26.027  28.269  -5.358  1.00 50.73
ATOM   2988  CD1 LEU A 438      25.108  29.457  -5.584  1.00 50.27
ATOM   2989  CD2 LEU A 438      26.629  28.328  -4.001  1.00 51.67
ATOM   2990  N   ASP A 439      23.505  24.715  -7.037  1.00 52.67
ATOM   2991  CA  ASP A 439      22.149  24.128  -7.172  1.00 55.74
ATOM   2992  C   ASP A 439      21.690  24.224  -5.722  1.00 56.96
ATOM   2993  O   ASP A 439      21.757  23.221  -4.945  1.00 57.33
ATOM   2994  CB  ASP A 439      22.240  22.657  -7.586  1.00 56.39
ATOM   2995  CG  ASP A 439      20.879  21.993  -7.695  1.00 57.68
ATOM   2996  OD1 ASP A 439      20.046  22.178  -6.781  1.00 57.75
ATOM   2997  OD2 ASP A 439      20.645  21.274  -8.692  1.00 58.18
ATOM   2998  N   MET A 440      21.233  25.407  -5.337  1.00 58.71
ATOM   2999  CA  MET A 440      20.841  25.656  -3.944  1.00 60.87
ATOM   3000  C   MET A 440      19.435  26.215  -3.713  1.00 62.52
ATOM   3001  O   MET A 440      19.247  27.451  -3.489  1.00 63.93
ATOM   3002  CB  MET A 440      21.916  26.569  -3.346  1.00 60.48
ATOM   3003  CG  MET A 440      21.523  27.456  -2.201  1.00 60.72
ATOM   3004  SD  MET A 440      22.755  28.755  -2.086  1.00 59.28
ATOM   3005  CE  MET A 440      22.367  29.689  -3.543  1.00 59.46
ATOM   3006  N   GLU A 441      18.435  25.343  -3.765  1.00 63.61
ATOM   3007  CA  GLU A 441      17.042  25.774  -3.514  1.00 65.54
ATOM   3008  C   GLU A 441      16.356  24.847  -2.518  1.00 64.49
ATOM   3009  O   GLU A 441      15.998  25.285  -1.375  1.00 65.36
ATOM   3010  CB  GLU A 441      16.229  25.847  -4.815  1.00 67.99
ATOM   3011  CG  GLU A 441      16.500  24.745  -5.822  1.00 70.98
ATOM   3012  CD  GLU A 441      17.353  25.228  -6.981  1.00 72.23
ATOM   3013  OE1 GLU A 441      18.507  25.646  -6.742  1.00 73.24
ATOM   3014  OE2 GLU A 441      16.867  25.194  -8.132  1.00 73.30
ATOM   3015  N   ASP A 442      16.170  23.585  -2.896  1.00 61.29
ATOM   3016  CA  ASP A 442      15.519  22.616  -1.986  1.00 58.37
ATOM   3017  C   ASP A 442      16.504  21.966  -1.018  1.00 55.47
ATOM   3018  O   ASP A 442      16.615  20.704  -0.950  1.00 54.59
ATOM   3019  CB  ASP A 442      14.800  21.530  -2.785  1.00 59.93
ATOM   3020  CG  ASP A 442      13.298  21.616  -2.646  1.00 60.90
ATOM   3021  OD1 ASP A 442      12.689  22.478  -3.312  1.00 61.34
ATOM   3022  OD2 ASP A 442      12.729  20.832  -1.854  1.00 61.81
ATOM   3023  N   CYS A 443      17.207  22.790  -0.252  1.00 51.31
ATOM   3024  CA  CYS A 443      18.200  22.281   0.713  1.00 47.79
ATOM   3025  C   CYS A 443      17.635  22.156   2.121  1.00 46.40
ATOM   3026  O   CYS A 443      18.168  21.373   2.965  1.00 44.04
ATOM   3027  CB  CYS A 443      19.421  23.198   0.713  1.00 48.61
ATOM   3028  SG  CYS A 443      20.176  23.339  -0.939  1.00 46.95
ATOM   3029  N   GLY A 444      16.566  22.895   2.395  1.00 45.40
ATOM   3030  CA  GLY A 444      15.953  22.846   3.709  1.00 45.06
ATOM   3031  C   GLY A 444      15.011  21.673   3.899  1.00 45.25
ATOM   3032  O   GLY A 444      14.271  21.264   2.952  1.00 44.97
ATOM   3033  N   TYR A 445      15.018  21.109   5.101  1.00 44.97
ATOM   3034  CA  TYR A 445      14.140  19.968   5.421  1.00 44.48
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FIG. 1WW

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ATOM   3035  C   TYR A 445      12.778  20.467   5.882  1.00 45.23
ATOM   3036  O   TYR A 445      12.662  21.558   6.530  1.00 44.57
ATOM   3037  CB  TYR A 445      14.801  19.172   6.531  1.00 43.11
ATOM   3038  CG  TYR A 445      13.918  17.997   6.871  1.00 42.75
ATOM   3039  CD1 TYR A 445      13.846  16.905   6.010  1.00 42.58
ATOM   3040  CD2 TYR A 445      13.170  17.998   8.049  1.00 42.27
ATOM   3041  CE1 TYR A 445      13.042  15.820   6.327  1.00 41.99
ATOM   3042  CE2 TYR A 445      12.358  16.917   8.360  1.00 43.20
ATOM   3043  CZ  TYR A 445      12.289  15.835   7.503  1.00 41.98
ATOM   3044  OH  TYR A 445      11.490  14.751   7.810  1.00 20.00
ATOM   3045  N   ASN A 446      11.746  19.699   5.550  1.00 45.69
ATOM   3046  CA  ASN A 446      10.359  20.012   5.947  1.00 48.64
ATOM   3047  C   ASN A 446       9.776  18.726   6.524  1.00 50.90
ATOM   3048  O   ASN A 446       9.894  17.625   5.896  1.00 51.59
ATOM   3049  CB  ASN A 446       9.537  20.470   4.738  1.00 48.19
ATOM   3050  CG  ASN A 446       9.975  21.827   4.213  1.00 48.18
ATOM   3051  OD1 ASN A 446       9.926  22.858   4.950  1.00 48.63
ATOM   3052  ND2 ASN A 446      10.403  21.867   2.957  1.00 48.04
ATOM   3053  N   ILE A 447       9.165  18.826   7.700  1.00 53.94
ATOM   3054  CA  ILE A 447       8.569  17.650   8.388  1.00 55.99
ATOM   3055  C   ILE A 447       7.720  16.772   7.463  1.00 57.01
ATOM   3056  O   ILE A 447       7.449  17.195   6.318  1.00 58.11
ATOM   3057  CB  ILE A 447       7.699  18.105   9.577  1.00 55.86
ATOM   3058  CG1 ILE A 447       8.488  19.086  10.450  1.00 56.28
ATOM   3059  CG2 ILE A 447       7.267  16.900  10.406  1.00 56.92
ATOM   3060  CD1 ILE A 447       9.759  18.505  11.037  1.00 55.79
ATOM   3061  OXT ILE A 447       7.328  15.666   7.895  1.00 57.55
ATOM   3062  N   SER P   1      35.528  15.672  28.238  1.00 37.61
ATOM   3063  CA  SER P   1      34.172  16.082  28.590  1.00 36.72
ATOM   3064  C   SER P   1      33.508  16.863  27.450  1.00 34.75
ATOM   3065  O   SER P   1      34.132  17.643  26.742  1.00 36.46
ATOM   3066  CB  SER P   1      34.248  16.949  29.848  1.00 37.77
ATOM   3067  OG  SER P   1      33.152  17.865  29.853  1.00 40.82
ATOM   3068  N   GLU P   2      32.203  16.601  27.257  1.00 32.86
ATOM   3069  CA  GLU P   2      31.513  17.216  26.129  1.00 32.80
ATOM   3070  C   GLU P   2      30.218  17.906  26.552  1.00 31.23
ATOM   3071  O   GLU P   2      29.435  17.401  27.348  1.00 31.31
ATOM   3072  CB  GLU P   2      31.275  16.167  25.027  1.00 33.64
ATOM   3073  CG  GLU P   2      31.096  17.096  23.826  1.00 37.41
ATOM   3074  CD  GLU P   2      31.076  15.940  22.852  1.00 38.37
ATOM   3075  OE1 GLU P   2      31.996  15.134  22.983  1.00 39.04
ATOM   3076  OE2 GLU P   2      30.175  15.798  22.037  1.00 39.43
ATOM   3077  N   VAL P   3      29.742  19.344  26.106  1.00 27.98
ATOM   3078  CA  VAL P   3      28.367  19.820  26.101  1.00 26.44
ATOM   3079  C   VAL P   3      27.717  19.598  24.735  1.00 26.26
ATOM   3080  O   VAL P   3      28.371  19.580  23.701  1.00 25.48
ATOM   3081  CB  VAL P   3      28.377  21.311  26.429  1.00 25.89
ATOM   3082  CG1 VAL P   3      28.684  21.516  27.911  1.00 27.07
ATOM   3083  CG2 VAL P   3      29.431  22.012  25.594  1.00 23.97
ATOM   3084  N   ASN P   4      26.361  19.591  25.174  1.00 25.89
ATOM   3085  CA  ASN P   4      25.421  19.254  24.075  1.00 26.64
ATOM   3086  C   ASN P   4      24.027  19.825  24.452  1.00 26.87
ATOM   3087  O   ASN P   4      23.116  19.163  25.077  1.00 27.10
ATOM   3088  CB  ASN P   4      25.349  17.766  23.876  1.00 27.95
ATOM   3089  CG  ASN P   4      26.498  17.245  22.971  1.00 29.39
ATOM   3090  OD1 ASN P   4      26.499  17.409  21.723  1.00 31.90
ATOM   3091  ND2 ASN P   4      27.489  16.617  23.603  1.00 31.97
ATOM   3092  N   STA P   5      24.115  21.101  24.323  1.00 25.26
ATOM   3093  CA  STA P   5      22.965  21.865  24.929  1.00 25.83
ATOM   3094  CB  STA P   5      23.683  22.681  26.021  1.00 27.28
ATOM   3095  CG  STA P   5      24.378  22.057  27.197  1.00 28.07
ATOM   3096  CD1 STA P   5      25.002  23.077  28.182  1.00 27.46
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FIG. 1XX

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ATOM   3097  CD2 STA P   5      23.280  21.130  27.828  1.00 25.47
ATOM   3098  CH  STA P   5      22.223  22.851  23.940  1.00 25.86
ATOM   3099  OH  STA P   5      23.028  23.679  23.298  1.00 25.23
ATOM   3100  CM  STA P   5      21.372  21.980  23.048  1.00 27.11
ATOM   3101  C   STA P   5      20.420  21.340  24.125  1.00 27.81
ATOM   3102  O   STA P   5      20.241  20.065  24.095  1.00 25.70
ATOM   3103  N   VAL P   6      19.339  22.479  23.764  1.00 26.04
ATOM   3104  CA  VAL P   6      18.037  21.953  24.156  1.00 27.12
ATOM   3105  C   VAL P   6      17.496  20.965  23.121  1.00 27.36
ATOM   3106  O   VAL P   6      17.795  21.029  21.936  1.00 26.97
ATOM   3107  CB  VAL P   6      17.073  23.130  24.312  1.00 27.18
ATOM   3108  CG1 VAL P   6      16.433  23.463  22.965  1.00 26.70
ATOM   3109  CG2 VAL P   6      15.985  22.781  25.311  1.00 28.74
ATOM   3110  N   ALA P   7      16.702  19.998  23.617  1.00 28.68
ATOM   3111  CA  ALA P   7      16.158  18.986  22.720  1.00 32.14
ATOM   3112  C   ALA P   7      14.774  19.377  22.197  1.00 32.99
ATOM   3113  O   ALA P   7      14.040  20.149  22.801  1.00 32.08
ATOM   3114  CB  ALA P   7      16.072  17.666  23.489  1.00 31.38
ATOM   3115  N   GLU P   8      14.443  18.843  21.007  1.00 36.10
ATOM   3116  CA  GLU P   8      13.144  19.143  20.418  1.00 39.90
ATOM   3117  C   GLU P   8      12.012  18.425  21.158  1.00 41.72
ATOM   3118  O   GLU P   8      12.189  17.359  21.733  1.00 41.52
ATOM   3119  CB  GLU P   8      13.172  18.705  18.952  1.00 39.88
ATOM   3120  CG  GLU P   8      14.037  19.626  18.090  1.00 41.02
ATOM   3121  CD  GLU P   8      13.896  19.235  16.637  1.00 41.83
ATOM   3122  OE1 GLU P   8      14.911  19.052  15.979  1.00 41.60
ATOM   3123  OE2 GLU P   8      12.765  19.124  16.169  1.00 41.88
ATOM   3124  N   PHE P   9      10.811  18.986  21.162  1.00 45.62
ATOM   3125  CA  PHE P   9       9.677  18.356  21.865  1.00 49.63
ATOM   3126  C   PHE P   9       9.382  16.960  21.337  1.00 50.61
ATOM   3127  O   PHE P   9       9.156  16.839  20.116  1.00 51.38
ATOM   3128  CB  PHE P   9       8.451  19.245  21.670  1.00 50.65
ATOM   3129  CG  PHE P   9       8.607  20.501  22.499  1.00 52.48
ATOM   3130  CD1 PHE P   9       8.278  20.493  23.849  1.00 52.80
ATOM   3131  CD2 PHE P   9       9.073  21.659  21.899  1.00 53.12
ATOM   3132  CE1 PHE P   9       8.420  21.651  24.600  1.00 53.74
ATOM   3133  CE2 PHE P   9       9.215  22.817  22.659  1.00 53.61
ATOM   3134  CZ  PHE P   9       8.890  22.817  24.010  1.00 54.24
ATOM   3135  OXT PHE P   9       9.383  16.011  22.152  1.00 51.56
ATOM   3136  OH2 TIP C   2      37.673   4.149  14.933  1.00 18.73
ATOM   3137  OH2 TIP C   3      37.999  19.019  28.545  1.00 20.36
ATOM   3138  OH2 TIP C  12      46.550  23.555   9.446  1.00 16.05
ATOM   3139  OH2 TIP C  14      18.354  26.505  28.719  1.00 14.14
ATOM   3140  OH2 TIP C  15      33.073  10.884  15.835  1.00 14.30
ATOM   3141  OH2 TIP C  16      15.032  34.698  31.070  1.00 11.96
ATOM   3142  OH2 TIP C  17       7.170  35.908  33.277  1.00 16.70
ATOM   3143  OH2 TIP C  19      16.624  32.704  28.166  1.00 15.10
ATOM   3144  OH2 TIP C  20      35.078  42.552  29.609  1.00 19.72
ATOM   3145  OH2 TIP C  21      40.457  30.360  27.755  1.00 16.31
ATOM   3146  OH2 TIP C  22      52.263  20.430   9.725  1.00 20.11
ATOM   3147  OH2 TIP C  23      20.720  20.412  14.822  1.00 12.68
ATOM   3148  OH2 TIP C  24      33.413  15.317  -5.393  1.00 15.90
ATOM   3149  OH2 TIP C  25      38.275  25.072  23.469  1.00 13.40
ATOM   3150  OH2 TIP C  27      16.591  21.729   7.186  1.00 19.86
ATOM   3151  OH2 TIP C  28      21.798  19.346  19.780  1.00 14.31
ATOM   3152  OH2 TIP C  29      17.533  34.724  25.177  1.00 16.69
ATOM   3153  OH2 TIP C  30      29.162  27.768  25.821  1.00 19.19
ATOM   3154  OH2 TIP C  31      40.631  28.021  16.946  1.00 14.53
ATOM   3155  OH2 TIP C  32      32.428  32.415  17.998  1.00 10.42
ATOM   3156  OH2 TIP C  33      11.884  34.798  21.161  1.00 23.00
ATOM   3157  OH2 TIP C  34      27.837  25.769  -5.173  1.00 33.18
ATOM   3158  OH2 TIP C  35      12.372  31.279  28.339  1.00 16.96
```

FIG. 1YY

ATOM	3159	OH2	TIP	C	36	39.263	28.648	25.755	1.00	9.84
ATOM	3160	OH2	TIP	C	40	38.924	30.840	30.171	1.00	13.35
ATOM	3161	OH2	TIP	C	41	18.085	18.989	18.858	1.00	16.60
ATOM	3162	OH2	TIP	C	42	7.300	35.692	30.168	1.00	19.22
ATOM	3163	OH2	TIP	C	43	14.250	32.017	30.405	1.00	18.32
ATOM	3164	OH2	TIP	C	44	37.440	22.761	1.333	1.00	23.96
ATOM	3165	OH2	TIP	C	45	29.932	39.949	32.969	1.00	22.64
ATOM	3166	OH2	TIP	C	46	29.433	17.902	20.935	1.00	16.15
ATOM	3167	OH2	TIP	C	47	53.536	22.468	21.774	1.00	21.62
ATOM	3168	OH2	TIP	C	48	40.180	15.699	-0.272	1.00	12.15
ATOM	3169	OH2	TIP	C	49	14.955	25.973	25.745	1.00	11.98
ATOM	3170	OH2	TIP	C	50	38.595	6.527	3.885	1.00	23.66
ATOM	3171	OH2	TIP	C	51	48.551	24.793	17.574	1.00	18.30
ATOM	3172	OH2	TIP	C	52	20.747	27.407	17.869	1.00	8.25
ATOM	3173	OH2	TIP	C	53	26.489	18.730	30.746	1.00	26.59
ATOM	3174	OH2	TIP	C	54	38.723	11.162	19.249	1.00	11.49
ATOM	3175	OH2	TIP	C	55	33.881	26.191	31.382	1.00	19.21
ATOM	3176	OH2	TIP	C	56	13.322	31.213	40.027	1.00	15.61
ATOM	3177	OH2	TIP	C	57	19.497	16.134	41.439	1.00	26.82
ATOM	3178	OH2	TIP	C	58	38.469	37.062	5.695	1.00	23.10
ATOM	3179	OH2	TIP	C	59	45.575	15.894	3.122	1.00	18.45
ATOM	3180	OH2	TIP	C	60	39.615	25.333	-1.743	1.00	20.09
ATOM	3181	OH2	TIP	C	61	32.158	37.928	32.431	1.00	12.17
ATOM	3182	OH2	TIP	C	62	46.793	19.609	22.823	1.00	19.81
ATOM	3183	OH2	TIP	C	63	24.847	37.031	-0.659	1.00	29.98
ATOM	3184	OH2	TIP	C	64	45.957	18.715	3.836	1.00	18.88
ATOM	3185	OH2	TIP	C	65	36.189	33.100	17.653	1.00	10.63
ATOM	3186	OH2	TIP	C	66	31.177	25.020	24.150	1.00	28.40
ATOM	3187	OH2	TIP	C	67	46.181	23.210	18.466	1.00	20.41
ATOM	3188	OH2	TIP	C	68	21.756	10.923	7.943	1.00	22.80
ATOM	3189	OH2	TIP	C	69	12.936	36.695	30.481	1.00	17.63
ATOM	3190	OH2	TIP	C	70	33.713	44.843	8.382	1.00	30.49
ATOM	3191	OH2	TIP	C	71	21.051	41.550	39.982	1.00	31.15
ATOM	3192	OH2	TIP	C	72	26.815	38.732	3.198	1.00	22.61
ATOM	3193	OH2	TIP	C	73	41.656	24.820	21.177	1.00	19.69
ATOM	3194	OH2	TIP	C	74	25.521	30.139	47.617	1.00	31.08
ATOM	3195	OH2	TIP	C	75	20.497	46.537	15.336	1.00	29.67
ATOM	3196	OH2	TIP	C	76	7.708	28.422	41.027	1.00	26.00
ATOM	3197	OH2	TIP	C	77	25.650	18.585	27.821	1.00	17.30
ATOM	3198	OH2	TIP	C	78	35.124	16.582	21.374	1.00	15.44
ATOM	3199	OH2	TIP	C	79	16.806	29.258	45.952	1.00	22.64
ATOM	3200	OH2	TIP	C	80	29.365	7.305	14.767	1.00	28.00
ATOM	3201	OH2	TIP	C	81	36.259	9.577	-0.018	1.00	36.72
ATOM	3202	OH2	TIP	C	82	5.598	37.375	35.367	1.00	29.64
ATOM	3203	OH2	TIP	C	83	14.256	22.267	9.863	1.00	20.30
ATOM	3204	OH2	TIP	C	84	34.533	14.826	41.318	1.00	35.70
ATOM	3205	OH2	TIP	C	85	14.253	38.931	17.469	1.00	22.15
ATOM	3206	OH2	TIP	C	86	40.762	43.633	8.075	1.00	32.27
ATOM	3207	OH2	TIP	C	87	20.139	38.471	47.202	1.00	19.79
ATOM	3208	OH2	TIP	C	88	49.003	25.388	14.809	1.00	16.95
ATOM	3209	OH2	TIP	C	89	48.376	21.580	21.346	1.00	26.51
ATOM	3210	OH2	TIP	C	90	38.281	15.314	27.561	1.00	34.16
ATOM	3211	OH2	TIP	C	91	8.631	39.984	34.095	1.00	41.37
ATOM	3212	OH2	TIP	C	92	50.906	23.612	20.744	1.00	52.18
ATOM	3213	OH2	TIP	C	93	53.785	20.060	24.538	1.00	24.16
ATOM	3214	OH2	TIP	C	94	24.823	42.619	11.579	1.00	21.18
ATOM	3215	OH2	TIP	C	95	25.075	45.083	6.146	1.00	38.65
ATOM	3216	OH2	TIP	C	96	40.830	25.584	18.443	1.00	18.31
ATOM	3217	OH2	TIP	C	97	43.416	22.239	18.182	1.00	19.16
ATOM	3218	OH2	TIP	C	98	13.417	34.174	40.223	1.00	31.15
ATOM	3219	OH2	TIP	C	99	33.278	34.940	35.258	1.00	19.39
ATOM	3220	OH2	TIP	C	100	16.214	11.125	16.638	1.00	44.74

FIG. 1ZZ

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ATOM   3221  OH2 TIP C 101      53.364  20.723  14.579  1.00 34.15
ATOM   3222  OH2 TIP C 102      49.883  22.898   7.975  1.00 17.76
ATOM   3223  OH2 TIP C 103      23.025  15.361  39.364  1.00 32.71
ATOM   3224  OH2 TIP C 104       9.989  41.920  29.368  1.00 18.54
ATOM   3225  OH2 TIP C 105      40.434  26.276  24.857  1.00 17.36
ATOM   3226  OH2 TIP C 106      20.997  29.964   6.095  1.00 20.90
ATOM   3227  OH2 TIP C 107      27.762  47.336  16.035  1.00 24.48
ATOM   3228  OH2 TIP C 108      49.284  22.771   5.126  1.00 18.73
ATOM   3229  OH2 TIP C 109      48.838  23.239  29.592  1.00 33.97
ATOM   3230  OH2 TIP C 110      28.582  23.099  35.349  1.00 20.25
ATOM   3231  OH2 TIP C 111      32.528  35.162  39.110  1.00 29.39
ATOM   3232  OH2 TIP C 112      41.404  21.066  27.696  1.00 29.24
ATOM   3233  OH2 TIP C 113      41.566  30.795  24.916  1.00 29.04
ATOM   3234  OH2 TIP C 114      38.888  34.349   4.634  1.00 19.24
ATOM   3235  OH2 TIP C 115      21.524  13.318   6.181  1.00 21.83
ATOM   3236  OH2 TIP C 116      20.262  44.365  41.166  1.00 51.68
ATOM   3237  OH2 TIP C 117      40.866  37.586   7.262  1.00 26.48
ATOM   3238  OH2 TIP C 118      24.269  19.013  20.381  1.00 20.56
ATOM   3239  OH2 TIP C 119      14.796  40.366  21.026  1.00 26.21
ATOM   3240  OH2 TIP C 120      40.271  21.968  24.452  1.00 22.99
ATOM   3241  OH2 TIP C 121      27.256   8.206   3.568  1.00 32.16
ATOM   3242  OH2 TIP C 122      38.453  23.426  21.155  1.00 20.65
ATOM   3243  OH2 TIP C 123      39.489  30.192  18.787  1.00 19.64
ATOM   3244  OH2 TIP C 124      49.479  24.877   3.120  1.00 15.38
ATOM   3245  OH2 TIP C 125      23.534  17.922  36.838  1.00 21.55
ATOM   3246  OH2 TIP C 126      24.481  13.568  37.531  1.00 33.00
ATOM   3247  OH2 TIP C 127      27.515  37.075  45.132  1.00 32.65
ATOM   3248  OH2 TIP C 128      20.903  11.530  10.774  1.00 25.13
ATOM   3249  OH2 TIP C 129      16.996  37.117   6.834  1.00 26.72
ATOM   3250  OH2 TIP C 130      42.280  39.848   5.806  1.00 39.08
ATOM   3251  OH2 TIP C 131      15.426  37.238  14.643  1.00 27.36
ATOM   3252  OH2 TIP C 132      47.740  29.973  16.321  1.00 27.58
ATOM   3253  OH2 TIP C 133      52.162  19.864  18.278  1.00 19.10
ATOM   3254  OH2 TIP C 134      47.805  11.416   4.529  1.00 30.40
ATOM   3255  OH2 TIP C 135      20.920  22.905  41.964  1.00 23.80
ATOM   3256  OH2 TIP C 136      27.784  19.013  -1.506  1.00 28.71
ATOM   3257  OH2 TIP C 137      25.506  36.437   2.115  1.00 19.53
ATOM   3258  OH2 TIP C 138       6.347  36.058  44.801  1.00 30.54
ATOM   3259  OH2 TIP C 139      18.428  23.862   8.397  1.00 19.65
ATOM   3260  OH2 TIP C 140      56.631  14.945  24.048  1.00 29.26
ATOM   3261  OH2 TIP C 141      36.045  33.381  -3.424  1.00 39.63
ATOM   3262  OH2 TIP C 142      20.242  14.180  11.802  1.00 31.49
ATOM   3263  OH2 TIP C 143       8.614  22.301  31.526  1.00 30.94
ATOM   3264  OH2 TIP C 144       8.697  38.736  31.440  1.00 44.64
ATOM   3265  OH2 TIP C 145      21.002  20.115  40.621  1.00 23.34
ATOM   3266  OH2 TIP C 146      36.343  37.533   7.628  1.00 25.43
ATOM   3267  OH2 TIP C 147      13.944  44.970  51.125  1.00 40.01
ATOM   3268  OH2 TIP C 148      12.509  22.964  23.735  1.00 33.44
ATOM   3269  OH2 TIP C 149      32.555   6.398   6.686  1.00 30.50
ATOM   3270  OH2 TIP C 150      11.123  30.018  41.695  1.00 29.12
ATOM   3271  OH2 TIP C 151      20.406  19.454  17.419  1.00 26.72
ATOM   3272  OH2 TIP C 152      37.729  21.375  25.750  1.00 27.16
ATOM   3273  OH2 TIP C 153      36.922  28.170  33.507  1.00 42.28
ATOM   3274  OH2 TIP C 154      13.904  29.766  32.277  1.00 19.72
ATOM   3275  OH2 TIP C 155      54.556  19.732  11.775  1.00 37.67
ATOM   3276  OH2 TIP C 156      14.999  28.327  48.310  1.00 40.64
ATOM   3277  OH2 TIP C 157      19.001  46.759  12.106  1.00 40.48
ATOM   3278  OH2 TIP C 158      22.361   9.339  13.691  1.00 44.57
ATOM   3279  OH2 TIP C 159      26.097  16.601  36.996  1.00 27.61
ATOM   3280  OH2 TIP C 160      51.862  24.669  14.501  1.00 39.22
ATOM   3281  OH2 TIP C 161      42.713  33.316  38.299  1.00 37.21
ATOM   3282  OH2 TIP C 162      32.074  43.316   6.583  1.00 32.14
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FIG. 1AAA

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ATOM   3283  OH2 TIP C 163      44.434  22.056   2.693  1.00 44.76
ATOM   3284  OH2 TIP C 164      24.074  33.090  45.770  1.00 26.95
ATOM   3285  OH2 TIP C 165      12.289  35.656  48.500  1.00 33.30
ATOM   3286  OH2 TIP C 166      19.499  27.253  51.538  1.00 48.93
ATOM   3287  OH2 TIP C 167      28.896  14.390  20.410  1.00 32.12
ATOM   3288  OH2 TIP C 168       7.799  34.543  25.107  1.00 34.11
ATOM   3289  OH2 TIP C 169      41.359  33.697   5.939  1.00 29.72
ATOM   3290  OH2 TIP C 170      26.378  23.008  46.449  1.00 37.54
ATOM   3291  OH2 TIP C 171      10.530  41.770  49.010  1.00 34.66
ATOM   3292  OH2 TIP C 172      41.154   5.586   4.533  1.00 25.18
ATOM   3293  OH2 TIP C 173      17.462  11.487   4.521  1.00 46.32
ATOM   3294  OH2 TIP C 174       7.600  39.527  37.113  1.00 36.37
ATOM   3295  OH2 TIP C 175       3.552  23.235  37.583  1.00 39.37
ATOM   3296  OH2 TIP C 176      32.818  21.891  40.191  1.00 36.81
ATOM   3297  OH2 TIP C 177      30.404  26.159  40.588  1.00 38.22
ATOM   3298  OH2 TIP C 178      16.691  29.183  54.400  1.00 39.76
ATOM   3299  OH2 TIP C 179      16.247  47.986  22.417  1.00 32.19
ATOM   3300  OH2 TIP C 180      37.394  44.558  11.594  1.00 39.03
ATOM   3301  OH2 TIP C 181      53.552  27.209  11.822  1.00 47.97
ATOM   3302  OH2 TIP C 182      10.503  32.709  12.025  1.00 38.41
ATOM   3303  OH2 TIP C 183      17.985  14.916  28.259  1.00 36.86
ATOM   3304  OH2 TIP C 184      25.047  45.446  12.174  1.00 49.92
ATOM   3305  OH2 TIP C 185      16.402  15.741  36.532  1.00 40.29
ATOM   3306  OH2 TIP C 186      51.364  22.471  17.335  1.00 28.11
ATOM   3307  OH2 TIP C 187      25.633  28.369  50.282  1.00 42.57
ATOM   3308  OH2 TIP C 188      35.183  14.816   0.037  1.00 36.60
ATOM   3309  OH2 TIP C 189       8.318  26.536  23.386  1.00 44.75
ATOM   3310  OH2 TIP C 190      47,893  17.794  24.745  1.00 42.51
ATOM   3311  OH2 TIP C 191       2.728  32.293  36.650  1.00 38.36
ATOM   3312  OH2 TIP C 192      30.315   9.929  15.860  1.00 39.58
ATOM   3313  OH2 TIP C 193      29.613  40.378   2.225  1.00 41.26
ATOM   3314  OH2 TIP C 194      14.241  43.934  16.316  1.00 43.60
ATOM   3315  OH2 TIP C 195      48.673  31.215   7.801  1.00 32.67
ATOM   3316  OH2 TIP C 196      10.948  21.963  18.969  1.00 41.87
ATOM   3317  OH2 TIP C 197      37.378  39.077   3.714  1.00 35.77
ATOM   3318  OH2 TIP C 198      24.488  11.993  21.654  1.00 38.05
ATOM   3319  OH2 TIP C 199      47.986  31.378   4.946  1.00 48.02
ATOM   3320  OH2 TIP C 200      15.373  46.520  15.659  1.00 45.30
ATOM   3321  OH2 TIP C 201      29.464  40.417  40.154  1.00 40.62
ATOM   3322  OH2 TIP C 202      56.018  18.652   7.189  1.00 43.28
ATOM   3323  OH2 TIP C 203      36.508  17.526  41.765  1.00 61.21
ATOM   3324  OH2 TIP C 204      36.132  36.523  -0.637  1.00 43.56
ATOM   3325  OH2 TIP C 205       9.832  29.974  46.230  1.00 47.33
ATOM   3326  OH2 TIP C 206      12.086  37.731  18.949  1.00 44.12
ATOM   3327  OH2 TIP C 207       4.729  26.744  22.711  1.00 40.03
ATOM   3328  OH2 TIP C 208       9.555  36.540  23.357  1.00 46.94
ATOM   3329  OH2 TIP C 209      23.046  47.732   4.343  1.00 48.13
ATOM   3330  OH2 TIP C 210      39.932  44.592   5.460  1.00 64.51
ATOM   3331  OH2 TIP C 211      17.996  41.071   6.267  1.00 48.35
ATOM   3332  OH2 TIP C 212      17.866  46.493  17.139  1.00 39.09
ATOM   3333  OH2 TIP C 213      55.520  11.908  17.658  1.00 43.06
ATOM   3334  OH2 TIP C 214       3.059  35.093  42.826  1.00 38.97
ATOM   3335  OH2 TIP C 215      31.593  14.910  43.677  1.00 44.01
ATOM   3336  OH2 TIP C 216      33.045  23.673  44.607  1.00 45.50
ATOM   3337  OH2 TIP C 217      42.870  35.555   7.510  1.00 29.79
ATOM   3338  OH2 TIP C 218       4.112  25.648  42.564  1.00 56.65
ATOM   3339  OH2 TIP C 219      48.260   8.547  20.446  1.00 47.85
ATOM   3340  OH2 TIP C 220      -0.925  31.171  41.173  1.00 36.99
ATOM   3341  OH2 TIP C 221      41.791  22.878   0.132  1.00 56.14
ATOM   3342  OH2 TIP C 222       7.088  25.685  41.540  1.00 47.43
ATOM   3343  OH2 TIP C 223      24.815   4.785  13.582  1.00 47.96
ATOM   3344  OH2 TIP C 224      40.690   4.520  15.174  1.00 48.76
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FIG. 1BBB

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ATOM   3345  OH2 TIP C 225      10.029  32.425  18.562  1.00 36.30
ATOM   3346  OH2 TIP C 226      22.346  37.737  48.941  1.00 34.15
ATOM   3347  OH2 TIP C 227      16.274  17.012  19.693  1.00 27.63
ATOM   3348  OH2 TIP C 228      35.332  13.692  20.375  1.00 37.59
ATOM   3349  OH2 TIP C 229      41.228  36.673  22.908  1.00 51.58
ATOM   3350  OH2 TIP C 230      17.416  42.030  50.226  1.00 47.63
ATOM   3351  OH2 TIP C 231      18.428  39.213  52.835  1.00 40.43
ATOM   3352  OH2 TIP C 232      42.243  43.386  25.548  1.00 48.60
ATOM   3353  OH2 TIP C 233      14.081  18.701   0.364  1.00 32.87
ATOM   3354  OH2 TIP C 234      41.421  41.332  28.531  1.00 54.67
ATOM   3355  OH2 TIP C 235      42.772  36.396  11.892  1.00 41.24
ATOM   3356  OH2 TIP C 236      13.068  13.733  28.653  1.00 42.66
ATOM   3357  OH2 TIP C 237      10.850  26.738   7.811  1.00 40.46
ATOM   3358  OH2 TIP C 238      16.253  20.926  45.776  1.00 44.60
ATOM   3359  OH2 TIP C 239      32.681  31.139  43.220  1.00 42.20
ATOM   3360  OH2 TIP C 240      56.267  22.254   9.280  1.00 52.44
ATOM   3361  OH2 TIP C 241      12.553  25.304   9.942  1.00 38.77
ATOM   3362  OH2 TIP C 242      50.727   9.516  16.775  1.00 33.38
ATOM   3363  OH2 TIP C 243      31.871  41.347   0.512  1.00 47.78
ATOM   3364  OH2 TIP C 244      10.008  45.092  37.807  1.00 39.52
ATOM   3365  OH2 TIP C 245      14.551  39.030   6.708  1.00 44.26
ATOM   3366  OH2 TIP C 246      26.955  18.903  -5.135  1.00 42.54
ATOM   3367  OH2 TIP C 247      39.916  22.478  18.854  1.00 33.22
ATOM   3368  OH2 TIP C 248      40.431  40.824  22.426  1.00 35.58
ATOM   3369  OH2 TIP C 249      52.081  23.408  10.759  1.00 42.53
ATOM   3370  OH2 TIP C 250      12.078  16.710  24.149  1.00 32.37
ATOM   3371  OH2 TIP C 251      54.111  15.908   8.256  1.00 44.58
ATOM   3372  OH2 TIP C 252      33.950  12.827  -1.753  1.00 27.02
ATOM   3373  OH2 TIP C 253      -0.775  26.703  40.353  1.00 43.64
ATOM   3374  OH2 TIP C 254       1.937  33.711  40.561  1.00 42.67
ATOM   3375  OH2 TIP C 255       8.008  24.066  18.824  1.00 51.45
ATOM   3376  OH2 TIP C 256      11.765  27.465   3.635  1.00 47.34
ATOM   3377  OH2 TIP C 257      27.863  43.878   9.233  1.00 32.44
ATOM   3378  OH2 TIP C 258      18.655  30.114   4.303  1.00 33.13
ATOM   3379  OH2 TIP C 259      21.592  19.085  -3.960  1.00 39.86
ATOM   3380  OH2 TIP C 260      41.876  24.067  25.906  1.00 26.34
ATOM   3381  OH2 TIP C 261      46.651  10.240   2.171  1.00 44.38
ATOM   3382  OH2 TIP C 262      32.536  15.827  32.477  1.00 43.28
ATOM   3383  OH2 TIP C 263      12.479  39.205  50.359  1.00 47.33
ATOM   3384  OH2 TIP C 264       0.850  27.980  38.316  1.00 43.45
ATOM   3385  OH2 TIP C 265      49.605   7.356  18.061  1.00 66.01
ATOM   3386  OH2 TIP C 266      30.177  40.365  -3.235  1.00 44.45
ATOM   3387  OH2 TIP C 267      39.818  12.364   0.512  1.00 48.84
ATOM   3388  OH2 TIP C 268      38.149  44.716  27.884  1.00 51.18
ATOM   3389  OH2 TIP C 269      37.156  37.062  30.528  1.00 35.17
ATOM   3390  OH2 TIP C 270      51.808   7.097  12.435  1.00 51.69
ATOM   3391  OH2 TIP C 271      54.351  12.626  12.471  1.00 47.45
ATOM   3392  OH2 TIP C 272      50.835  31.155  13.092  1.00 55.05
ATOM   3393  OH2 TIP C 273      12.159  35.313  52.133  1.00 52.38
ATOM   3394  OH2 TIP C 274      21.002  44.489  13.037  1.00 39.70
ATOM   3395  OH2 TIP C 275      37.936  23.627  34.221  1.00 48.56
ATOM   3396  OH2 TIP C 276      45.844  30.935  31.365  1.00 43.24
ATOM   3397  OH2 TIP C 277      38.831  48.015  15.554  1.00 49.83
ATOM   3398  OH2 TIP C 278       5.630  28.150  44.576  1.00 48.10
ATOM   3399  OH2 TIP C 279       8.600  24.000  45.727  1.00 49.27
ATOM   3400  OH2 TIP C 280      54.276  20.854   7.807  1.00 36.02
ATOM   3401  OH2 TIP C 281       3.544  34.696  46.365  1.00 43.63
ATOM   3402  OH2 TIP C 282      24.214  46.264  46.163  1.00 48.04
ATOM   3403  OH2 TIP C 283       7.099  32.072  19.549  1.00 54.97
ATOM   3404  OH2 TIP C 284      36.469  22.374  41.355  1.00 52.17
ATOM   3405  OH2 TIP C 285      34.660  13.757  23.756  1.00 45.46
ATOM   3406  OH2 TIP C 286      28.516  42.981   5.402  1.00 53.58
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FIG. 1CCC

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ATOM   3407  OH2 TIP C 287      35.579   4.929  12.012  1.00 52.07
ATOM   3408  OH2 TIP C 288      22.974  49.682  24.299  1.00 53.67
ATOM   3409  OH2 TIP C 289       3.725  31.464  46.354  1.00 46.43
ATOM   3410  OH2 TIP C 290      27.340  39.594  -2.191  1.00 56.89
ATOM   3411  OH2 TIP C 291      33.413  34.856  32.335  1.00 31.78
ATOM   3412  OH2 TIP C 292      43.340   7.715   8.063  1.00 43.53
ATOM   3413  OH2 TIP C 293      28.243  21.392  -4.937  1.00 38.33
ATOM   3414  OH2 TIP C 294      49.389  26.590  35.796  1.00 45.66
ATOM   3415  OH2 TIP C 295      28.948  15.824  33.796  1.00 52.48
ATOM   3416  OH2 TIP C 296      27.347  13.383  37.207  1.00 48.27
ATOM   3417  OH2 TIP C 297      38.485  26.090  36.901  1.00 48.92
ATOM   3418  OH2 TIP C 298      12.120  20.265  11.506  1.00 50.10
ATOM   3419  OH2 TIP C 299      36.480  36.306  38.613  1.00 50.38
ATOM   3420  OH2 TIP C 300      31.471  16.463  35.507  1.00 38.37
ATOM   3421  OH2 TIP C 301      42.889   5.274   2.358  1.00 33.49
ATOM   3422  OH2 TIP C 302      23.548  44.173  32.246  1.00 39.09
ATOM   3423  OH2 TIP C 303      13.465  43.978  13.054  1.00 52.67
ATOM   3424  OH2 TIP C 304      25.133  43.053   4.111  1.00 52.03
ATOM   3425  OH2 TIP C 305      33.587  24.652  39.392  1.00 49.48
ATOM   3426  OH2 TIP C 306      39.063  28.353   1.979  1.00 47.89
ATOM   3427  OH2 TIP C 307      49.357  35.834  12.150  1.00 49.22
ATOM   3428  OH2 TIP C 308      27.159  46.386  33.347  1.00 49.50
ATOM   3429  OH2 TIP C 309       9.510  21.769  39.704  1.00 47.95
ATOM   3430  OH2 TIP C 310      34.885  32.959  39.205  1.00 51.26
ATOM   3431  OH2 TIP C 311      30.980   6.002   9.747  1.00 56.02
ATOM   3432  OH2 TIP C 312      43.802  34.511  14.853  1.00 41.89
ATOM   3433  OH2 TIP C 313      36.834   4.382   5.254  1.00 39.04
ATOM   3434  OH2 TIP C 314      12.453  30.429  47.461  1.00 47.60
ATOM   3435  OH2 TIP C 315      39.685  40.144  30.944  1.00 54.68
ATOM   3436  OH2 TIP C 316      45.982  20.840  31.078  1.00 47.99
ATOM   3437  OH2 TIP C 317      32.815  36.023  42.050  1.00 45.07
ATOM   3438  OH2 TIP C 318      17.877  37.802  -3.699  1.00 56.30
ATOM   3439  OH2 TIP C 319      53.681   9.633  16.525  1.00 55.34
ATOM   3440  OH2 TIP C 320      21.577  43.070  52.229  1.00 49.54
ATOM   3441  OH2 TIP C 321       6.139  45.122  36.565  1.00 44.40
ATOM   3442  OH2 TIP C 322      34.695  13.561  26.782  1.00 45.99
ATOM   3443  OH2 TIP C 323      17.990  33.946  -9.976  1.00 56.88
ATOM   3444  OH2 TIP C 324      25.587  50.416  28.268  1.00 52.75
ATOM   3445  OH2 TIP C 325      27.744  42.608  42.266  1.00 44.66
ATOM   3446  OH2 TIP C 326      48.357  32.815  33.851  1.00 57.98
ATOM   3447  OH2 TIP C 327      61.047  18.004  17.692  1.00 51.30
ATOM   3448  OH2 TIP C 328      17.327  11.069  11.972  1.00 48.28
ATOM   3449  OH2 TIP C 329      59.624  17.562  20.598  1.00 44.37
ATOM   3450  OH2 TIP C 330      40.644  39.227  19.932  1.00 37.57
ATOM   3451  OH2 TIP C 331      12.920  31.214  52.942  1.00 51.07
ATOM   3452  OH2 TIP C 332      37.639   0.847  19.561  1.00 49.44
ATOM   3453  OH2 TIP C 333      34.243  38.790  -3.251  1.00 54.21
ATOM   3454  OH2 TIP C 334      24.216  47.874   6.983  1.00 50.90
ATOM   3455  OH2 TIP C 335      15.324  34.797   6.670  1.00 45.25
ATOM   3456  OH2 TIP C 336      18.474  15.525  21.402  1.00 34.12
ATOM   3457  OH2 TIP C 337      40.048   8.873  26.818  1.00 49.89
ATOM   3458  OH2 TIP C 338      32.472  13.331  20.523  1.00 29.86
ATOM   3459  OH2 TIP C 339      57.778  14.167  30.422  1.00 49.76
ATOM   3460  OH2 TIP C 340      46.651  35.476  13.375  1.00 56.48
ATOM   3461  OH2 TIP C 341      15.427  13.237   3.552  1.00 57.25
ATOM   3462  OH2 TIP C 342      40.349  38.972   3.722  1.00 65.27
ATOM   3463  OH2 TIP C 343       8.685  28.945  15.205  1.00 59.60
ATOM   3464  OH2 TIP C 344      11.958  41.585  22.587  1.00 37.18
ATOM   3465  OH2 TIP C 345       9.054  20.498  28.914  1.00 42.95
ATOM   3466  OH2 TIP C 346      20.086  20.088  46.913  1.00 42.03
ATOM   3467  OH2 TIP C 347      40.370  35.093   2.009  1.00 49.35
ATOM   3468  OH2 TIP C 348      41.948   4.327  12.147  1.00 50.59
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FIG. 1DDD

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ATOM   3469  OH2 TIP C 349      23.518  45.701  40.287  1.00 39.79
ATOM   3470  OH2 TIP C 350      19.169  37.474   4.786  1.00 44.67
ATOM   3471  OH2 TIP C 351      32.946  39.184  41.062  1.00 57.56
ATOM   3472  OH2 TIP C 352      37.578  47.817  18.421  1.00 51.80
ATOM   3473  OH2 TIP C 353      15.391  43.820   7.645  1.00 58.15
ATOM   3474  OH2 TIP C 354      38.205  17.257  33.401  1.00 55.84
ATOM   3475  OH2 TIP C 355      43.224   1.565  14.606  1.00 41.12
ATOM   3476  OH2 TIP C 356      18.704  51.623  28.487  1.00 61.11
ATOM   3477  OH2 TIP C 357      46.033   5.813   0.173  1.00 43.43
ATOM   3478  OH2 TIP C 358      51.950  27.722  14.408  1.00 45.00
ATOM   3479  OH2 TIP C 359      46.825   2.427  15.714  1.00 52.68
ATOM   3480  OH2 TIP C 360      17.624  50.111  20.315  1.00 39.65
ATOM   3481  O   HOH C 361      27.534  15.877  26.687  1.00 20.00
ATOM   3482  O   HOH C 362      28.946  16.344  30.514  1.00 20.00
END
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FIG. 1EEE